

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1426

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1426

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Asn Asn Asn  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Met Phe Gly Thr Ala Lys Tyr Ser Gln Asn Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Ser  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ser Arg Asp Leu Leu Leu Phe Pro His Tyr Gly Met Asp Val  
 100 105 110

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp  
 130 135 140

Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln  
 145 150 155 160

Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro  
 165 170 175

Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser  
 180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser  
 195 200 205

Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys  
 210 215 220

Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr  
 225 230 235 240

Lys Leu Thr Val Leu Gly  
 245

<210> 1427

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1427

Glu Ala Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr  
 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Gly Ile Ser Trp Asn Ser Gly Ser Ile Gly Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Thr Arg Gly Tyr Glu Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Glu Leu  
 100 105 110

Gly Ala Phe Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Pro Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Ala Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1428

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1428

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr  
 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu  
 35 40 45

Ser Val Ile Ser Lys Asp Gly Asn Lys Lys Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Lys Asp Gly Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Asn Gln  
100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1429  
<211> 247  
<212> PRT  
<213> Homo sapiens

<400> 1429

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro  
 130 135 140

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly  
 145 150 155 160

Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu  
 165 170 175

Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro  
 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly  
 195 200 205

Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1430

&lt;211&gt; 245

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1430

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Arg Gly  
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala  
 130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser  
 145 150 155 160

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly  
 165 170 175

Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly  
 180 185 190

Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu  
 195 200 205

Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala  
 210 215 220

Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys  
 225 230 235 240

Leu Thr Val Leu Gly  
 245

<210> 1431

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1431

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Ser Ser Ser  
 20 25 30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Thr Lys Asp Arg Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Tyr Gly  
 100 105 110

Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1432

<211> 253

<212> PRT

<213> Homo sapiens.

<400> 1432

Gln Val Gln Leu Leu Gln Ser Ala Gly Gly Val Val Arg Pro Gly Gly  
 1 5 10 15

Ser Gln Arg Leu Ser Cys Ser Ala Ser Gly Phe Thr Phe Ser Asp Tyr  
 20 25 30

Gly Ile His Trp Val Arg Gln Gly Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Phe Ile Thr Ser Asn Gly Ser Asn Lys Tyr Tyr Gly Asp Thr Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Arg Asn Met Val Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Ser Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Val Arg Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Ser  
 100 105 110

Tyr Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly  
 115 120 125



Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1433

<211> 242

<212> PRT

<213> Homo sapiens

<400> 1433

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

85 90 95  
 Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Gln Gly  
 100 105 110  
 Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125  
 Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser  
 130 135 140  
 Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu  
 145 150 155 160  
 Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro  
 165 170 175  
 Val Leu Val Ile Tyr Gly Lys Asn Lys Arg Pro Ser Gly Ile Pro Asp  
 180 185 190  
 Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr  
 195 200 205  
 Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser Arg Asp  
 210 215 220  
 Ser Ser Gly Asn His Val Leu Phe Gly Arg Gly Thr Lys Leu Thr Val  
 225 230 235 240  
 Leu Gly  
 <210> 1434  
 <211> 247  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1434  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30  
 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1435

<211> 252

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1435

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Asn Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Gln Trp Leu  
 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Thr Ser Asn Phe Ala Gln Lys Phe  
 50 55 60

Gln Asp Arg Leu Thr Met Ser Ala Asp Glu Leu Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Asp Ser Leu Thr Ser Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Leu Tyr Phe Glu Asp Thr Asn Tyr Arg His Gly Asp Ala  
 100 105 110

Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1436

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1436

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Gly Asn Tyr  
20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Gln Gly  
100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala  
130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser  
145 150 155 160

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly  
165 170 175

Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly  
180 185 190

Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu  
 195 200 205

Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala  
 210 215 220

Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys  
 225 230 235 240

Leu Thr Val Leu Gly  
 245

<210> 1437

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1437

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Trp Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1438

<211> 242

<212> PRT

<213> Homo sapiens

<400> 1438

Gly Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Gly Ser Ser  
20 25 30

Pro Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Asp Ile Val Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Lys Gly

100 105 110  
 Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125  
 Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser  
 130 135 140  
 Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu  
 145 150 155 160  
 Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro  
 165 170 175  
 Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro Ser Gly Ile Pro Asp  
 180 185 190  
 Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr  
 195 200 205  
 Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser Arg Asp  
 210 215 220  
 Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly Thr Lys Leu Thr Val  
 225 230 235 240  
 Leu Gly  
 <210> 1439  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1439  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30  
 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45  
 Gly Arg Ile Ile Pro Ile Val Asn Met Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60



Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Gly Thr Ala Tyr  
65 70 75 80

Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Asn Tyr Asp Phe Leu Thr Gly Tyr Tyr Gly Ala Phe Asp  
100 105 110

Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1440

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1440

Gly Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Phe Cys Lys Ala Ser Gly Gly Thr Phe Asn Thr Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Leu Ile Pro Lys Phe Gly Thr Pro Lys Tyr Ala Gln Asn Phe  
 50 55 60

Gln Asp Arg Leu Thr Ile Thr Ala Asp Thr Leu Thr Gly Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Ser Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg His Ser Lys Glu Tyr Asn Trp Asn Tyr Ala Leu Asp Tyr Trp  
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro  
 130 135 140

Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr  
 145 150 155 160

Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln  
 165 170 175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys  
 180 185 190

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn  
 195 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

&lt;210&gt; 1441

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1441

Glu Val Gln Leu Val Gln Ser Gly Gly Asp Leu Val Lys Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Pro Phe Asp Asp Tyr  
 20 25 30

Asp Met Asn Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu  
 35 40 45

Ser Tyr Ile Thr Val Arg Gly Thr Ser Val Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Glu Met Lys Ser Leu Arg Asp Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Arg Ser Gln Phe Asp Phe Leu Thr Gly Val Asp Arg Tyr  
 100 105 110

His Pro Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1442

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1442

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Lys Tyr Tyr  
 20 25 30

Thr Phe Ser Trp Ile Arg Gln Ala Pro Gly His Trp Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Asn Pro Ile Arg Gly Thr Ala Asn Tyr Ala Gln Lys Ser  
 50 55 60

Arg Gly Gly Val Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Val Tyr  
 65 70 75 80

Met Glu Leu Thr Ser Leu Glu Ser Asp Asp Thr Ala Val Tyr Phe Cys  
 85 90 95

Ala Ala Glu Gly Ala Ala Asp Tyr Leu Asn Gly Gln Tyr Phe Gln His  
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln  
 130 135 140

Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys  
 145 150 155 160

Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr  
 165 170 175

Gln Gln His Ser Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser  
 180 185 190

Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1443

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1443

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly

115                                      120                                      125  
 Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro  
     130                                      135                                      140  
 Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly  
 145                                      150                                      155                                      160  
 Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln His  
                                     165                                      170                                      175  
 Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val Ser Lys Arg Pro  
                                     180                                      185                                      190  
 Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn Ser Ala  
                                     195                                      200                                      205  
 Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
                                     210                                      215                                      220  
 Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly  
 225                                      230                                      235                                      240  
 Thr Lys Leu Thr Val Leu Gly  
                                     245  
  
 <210> 1444  
 <211> 242  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1444  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
     1                                      5                                      10                                      15  
  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
                                     20                                      25                                      30  
  
 Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                                     35                                      40                                      45  
  
 Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
                                     50                                      55                                      60  
  
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
                                     65                                      70                                      75                                      80



Ala Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Leu  
 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Thr Ser Asn Phe Ala Gln Lys Phe  
 50 55 60

Gln Asp Arg Leu Thr Met Ser Ala Asp Glu Leu Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Asp Ser Leu Thr Ser Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Leu Tyr Phe Glu Asp Thr Asn Tyr Arg His Gly Asp Ala  
 100 105 110

Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu  
 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile  
 145 150 155 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln  
 165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn  
 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn  
 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1446

<211> 248



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1446

Gln Val Gln Leu Gln Gln Ser Gly Ala Val Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Ala Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Tyr Tyr Asp Ile Leu Thr Gly His Pro Thr Tyr Gly Met  
 100 105 110

Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met  
 130 135 140

Thr Gln Ser Pro Ser Phe Leu Ser Ala Ser Val Gly Asp Arg Val Thr  
 145 150 155 160

Ile Thr Cys Arg Ala Ser Gln Gly Ile Asn Asn Tyr Leu Ala Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Arg Ala Pro Lys Leu Leu Ile Tyr Ala Ala Ser  
 180 185 190

Ser Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly  
 195 200 205

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala  
 210 215 220

Thr Tyr Tyr Cys Leu Gln Asp Ser Asp Tyr Pro Leu Thr Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Glu Ile Lys Arg  
 245

<210> 1447

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1447

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asn Ala  
 20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala  
 50 55 60

Pro Val Lys Gly Gly Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr  
 65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr  
 85 90 95

Tyr Cys Thr Thr Gly Ile Tyr Asp Ile Leu Thr Gly Tyr His Trp Asp  
 100 105 110

Asp Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys  
 145 150 155 160

Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
 180 185 190

Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser  
 225 230 235 240

Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1448

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1448

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Ser  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Tyr Gly Thr Ala Asn Tyr Ala Gln Arg Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Ser Thr Tyr Asp Ile Leu Thr Gly Ser Tyr His Asp Tyr  
 100 105 110

Gly Leu Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Tyr

130                      135                      140  
 Val Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln Arg Val  
 145                      150                      155                      160  
 Thr Ile Ser Cys Ser Gly Gly Arg Ser Asn Ile Gly Ser Asn Thr Val  
 165                      170                      175  
 Lys Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr  
 180                      185                      190  
 Gly Asn Asp Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser  
 195                      200                      205  
 Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Val Gln Ala Glu  
 210                      215                      220  
 Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Arg Gly  
 225                      230                      235                      240  
 Ser Arg Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly  
 245                      250  
 <210> 1449  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1449  
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly  
 1                      5                      10                      15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Val Ser Ser Asn  
 20                      25                      30  
 Tyr Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35                      40                      45  
 Ser Val Ile Tyr Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val Lys  
 50                      55                      60  
 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu  
 65                      70                      75                      80  
 Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85                      90                      95

Arg Asp Arg Leu His Tyr Asp Ile Leu Thr Gly His Gln Thr Asp Asp  
 100 105 110

Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ala Arg Ser Thr  
 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1450

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1450

Lys Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Ser Asn Phe  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Phe Ile Pro Val Phe Gly Thr Pro Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Glu Phe Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Leu Thr Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Arg Glu  
 100 105 110

Asp Ala Phe Asp Met Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1451

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1451

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30  
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45  
 Gly Val Ile Asn Pro Ser Gly Asp Gly Thr Ser Tyr Ala Gln Lys Phe  
 50 55 60  
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80  
 Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Gln Gly  
 100 105 110  
 Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125  
 Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val  
 130 135 140  
 Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser  
 145 150 155 160  
 Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro  
 165 170 175  
 Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser  
 180 185 190  
 Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser  
 195 200 205  
 Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys  
 210 215 220  
 Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys  
 225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1452

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1452

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Thr Tyr Asn Gly Asp Thr Asn Tyr Ala Gln Lys Leu  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Arg Gly Ala Ser Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr  
100 105 110

Ala Pro Ala Gln Gly Val Ala Phe Asp Ile Trp Gly Arg Gly Thr Leu  
115 120 125

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
130 135 140

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly  
145 150 155 160

Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp  
165 170 175

Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys  
180 185 190



Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val  
 195 200 205

Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr  
 210 215 220

Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser  
 225 230 235 240

Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr  
 245 250 255

Val Leu Gly

<210> 1453

<211> 258

<212> PRT

<213> Homo sapiens

<400> 1453

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Ile Ser Gly Asp Ser Val Ser Ser Asp  
 20 25 30

Ser Val Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu  
 35 40 45

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Lys Trp His Thr Asp Tyr Ala  
 50 55 60

Val Ser Leu Lys Ser Arg Met Thr Ile Asn Pro Asp Thr Ser Arg Asn  
 65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val  
 85 90 95

Tyr Tyr Cys Ala Arg Glu Gly Ala His Tyr Asp Ile Leu Thr Gly His  
 100 105 110

Asn Tyr Tyr His Tyr Gly Met Asp Val Trp Gly Lys Gly Thr Leu Val  
 115 120 125

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly

130                      135                      140  
 Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser  
 145                      150                      155                      160  
 Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val  
 165                      170                      175  
 Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala  
 180                      185                      190  
 Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser  
 195                      200                      205  
 Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile  
 210                      215                      220  
 Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr  
 225                      230                      235                      240  
 Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val  
 245                      250                      255  
 Leu Gly  
 <210> 1454  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1454  
 Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Gln Pro Gly Ser  
 1                      5                      10                      15  
 Ser Val Asn Val Ser Cys Lys Val Ser Gly Gly Thr Phe Gly Ser Ser  
 20                      25                      30  
 Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
 35                      40                      45  
 Gly Arg Ile Ile Pro Val Leu Gly Thr Thr Asn Tyr Ala Gln Arg Phe  
 50                      55                      60  
 Gln Gly Arg Val Thr Ile Ile Ala Asp Glu Leu Thr Asn Thr Val Asn  
 65                      70                      75                      80

Met Glu Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys  
85 90 95

Ala Arg Glu Thr Arg Lys Tyr Thr Ser Ser Pro Pro Tyr Asn Tyr Tyr  
100 105 110

Tyr Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Arg Ser Ile  
145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1455

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1455

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Thr Gly Gly Ile Phe Ser Ser Tyr  
20 25 30

Ala Met Tyr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Thr Pro Ile Leu Gly Thr Thr His Tyr Ala Pro Glu Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ser Tyr Val Leu Thr Gln Pro Pro  
 130 135 140

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly  
 145 150 155 160

Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu  
 165 170 175

Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro  
 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly  
 195 200 205

Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1456

<211> 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1456

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln His Asp Ile Leu Thr Gly Val Tyr Tyr Gly Met Asp  
 100 105 110

Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
 145 150 155 160

Ile Thr Cys Gln Gly Asp Gly Leu Arg Asn Tyr Tyr Ala Asn Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn  
 180 185 190

Asn Arg Pro Ser Gly Ile Pro Val Arg Phe Ser Gly Ser Ser Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Arg Ala Glu Asp Glu Gly  
 210 215 220

Val Tyr Tyr Cys Asn Tyr Arg Asp Ser Ser Gly Ala Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1457

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1457

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Arg Gly  
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala  
 130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Ala Ile Ser Cys Ser Gly Ser Ser  
 145 150 155 160

Tyr Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly  
 165 170 175

Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly  
180 185 190

Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu  
195 200 205

Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala  
210 215 220

Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1458

<211> 260

<212> PRT

<213> Homo sapiens

<400> 1458

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Arg Ser Tyr  
20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Gly Ile Ser Gly Asn Ala Gly Ser Asn Lys Tyr Tyr Ala Asp Ser  
50 55 60

Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu  
65 70 75 80

Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr  
85 90 95

Cys Ala Arg Asp Tyr Pro Gly Ser Glu Tyr Asp Ile Leu Thr Gly Tyr  
100 105 110

Leu Phe Gly Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr  
115 120 125

Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser

130                      135                      140  
 Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser  
 145                      150                      155                      160  
 Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
 165                      170                      175  
 Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala  
 180                      185                      190  
 Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile  
 195                      200                      205  
 Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val  
 210                      215                      220  
 Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser  
 225                      230                      235                      240  
 Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu  
 245                      250                      255  
 Thr Val Leu Gly  
 260  
 <210> 1459  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1459  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1                      5                      10                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Thr Tyr  
 20                      25                      30  
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35                      40                      45  
 Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Asn Tyr Ala Gln Lys Phe  
 50                      55                      60  
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Gly Thr Val Tyr  
 65                      70                      75                      80



Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1460

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1460

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Glu Pro Gly Ser  
1 5 10 15

Ser Val Thr Val Ser Cys Lys Thr Ser Gly Gly Thr Phe Arg Thr Ala  
20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile  
 35 40 45

Gly Gly Ile Ile Pro Ile Leu Gly Pro Pro Asn Tyr Ala Gln Ile Leu  
 50 55 60

Lys Gly Arg Leu Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Ala Arg Arg Val Gly Val Leu Gly Gly Lys Asn Ala Phe Glu  
 100 105 110

Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Glu Leu Thr Val Leu Gly  
 245 250

<210> 1461

<211> 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1461

Gln Val Gln Leu Val Gln Thr Gly Gly Gly Val Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Tyr Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln His Asp Ile Leu Thr Gly Gly Tyr Tyr Gly Met Asp  
 100 105 110

Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser  
 145 150 155 160

Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr  
 165 170 175

Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp  
 180 185 190

Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205

Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1462

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1462

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1463

<211> 256

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1463

Arg Val Gln Cys Gln Lys Ser Gly Gly Gly Leu Val Gln Pro Gly Arg  
1 5 10 15

Ser Arg Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Lys Asn Tyr  
20 25 30

Asp Val His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Xaa Arg Thr Arg Xaa Xaa Ala Asn Ser Tyr Thr Thr Glu Tyr Ala Ala  
50 55 60

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Ser  
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr  
                             85                            90                            95

Tyr Cys Ala Arg Glu Gly Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr  
                             100                            105                            110

Pro Leu Gly Tyr Phe Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val  
                             115                            120                            125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
                             130                            135                            140

Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly  
                             145                            150                            155                            160

Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser  
                             165                            170                            175

Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu  
                             180                            185                            190

Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe  
                             195                            200                            205

Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu  
                             210                            215                            220

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser  
                             225                            230                            235                            240

Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                             245                            250                            255

<210> 1464

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1464

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
                             1                            5                            10                            15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
                             20                            25                            30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Gln Gly  
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala  
 130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser  
 145 150 155 160

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly  
 165 170 175

Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly  
 180 185 190

Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu  
 195 200 205

Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala  
 210 215 220

Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys  
 225 230 235 240

Leu Thr Val Leu Gly  
 245

<210> 1465

<211> 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1465

Glu Val Gln Leu Val Glu Thr Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ile Phe Ser Ser Asn  
 20 25 30

Gly Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Ala Ile Ile Pro Met Phe Lys Thr Ala His Tyr Ala Gln Asn Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Asn Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Gly Ser Ser Gln Asn Phe Tyr Gly Met Asp Val Trp Gly  
 100 105 110

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro  
 130 135 140

Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser  
 145 150 155 160

Gly Thr Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

Phe Pro Gly Ala Ala Pro Lys Leu Leu Ile Tyr Asp Asn Gly Lys Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser  
 195 200 205

Ala Thr Leu Ala Ile Ala Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr  
 210 215 220



Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser Ala Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Val Thr Val Leu Gly  
 245

<210> 1466

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1466

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Thr  
 145 150 155 160

Val Thr Ile Ser Cys Ser Gly Gly Gly Thr Asn Ile Gly Arg Asp Arg  
 165 170 175

Val Thr Trp Tyr Gln Gln Val Pro Gly Thr Pro Pro Lys Leu Leu Ile  
180 185 190

Tyr Lys Thr Ser Gln Arg Pro Ser Arg Val Pro Asp Arg Phe Ser Ala  
195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Asp Ile Ser Gly Leu Arg Ser  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Val Val Trp Asp Asp Ser Leu Arg  
225 230 235 240

Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1467

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1467

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Thr Phe Ser Arg Ser  
20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Ile  
35 40 45

Gly Gly Ser Ile Pro Ile Phe Gly Pro Pro Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Ile Leu Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Gly Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Val Val Trp Val Ala Tyr Gly Asp Val Gly Ile Tyr Gly  
100 105 110

Phe Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser

130                      135                      140  
 Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
 145                      150                      155                      160  
 Thr Ile Ser Cys Thr Gly Ser Ser Thr Asp Leu Gly Asp Tyr Ser Ser  
                     165                      170                      175  
 Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Ile Ile  
                     180                      185                      190  
 Tyr Asp Val Asn Asn Arg Pro Ser Gly Val Ser Asp Arg Phe Ser Gly  
                     195                      200                      205  
 Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Ala Leu Gln Ala  
                     210                      215                      220  
 Asp Asp Glu Ala Asp Tyr His Cys Gly Ser Tyr Thr Asp His Leu Thr  
 225                      230                      235                      240  
 Arg Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                     245                      250  
  
 <210> 1468  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1468  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
   1                      5                      10                      15  
  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
                     20                      25                      30  
  
 Gly Phe Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                     35                      40                      45  
  
 Gly Arg Ile Ile Pro Asp Phe Glu Thr Thr Tyr Tyr Ser Gln Lys Leu  
                     50                      55                      60  
  
 Gln Asp Arg Val Thr Met Thr Ala Asp Thr Cys Thr Ser Thr Ser Tyr  
                     65                      70                      75                      80  
  
 Met Glu Leu Asn Ser Leu Arg Ser Asp Asp Thr Ala Ile Tyr Tyr Cys  
                     85                      90                      95

Ala Arg His Asp Tyr Tyr Ile Met Thr Ala Ala His Tyr Tyr Tyr Asp  
 100 105 110

Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
 130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
 145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn  
 180 185 190

Ser Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Ile His Leu Gly Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1469

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1469

Gln Val Gln Leu Val Gln Ser Gly Pro Asp Val Lys Asn Pro Gly Ala  
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Leu Asn Tyr  
 20 25 30

Asp Ile Asn Trp Val Arg Gln Thr Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asn Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Arg Leu Ser Ser Asp Asp Thr Ala Val Tyr Phe Cys  
 85 90 95

Ala Arg Gly Ile Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser  
 100 105 110

Pro Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg  
 145 150 155 160

Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr  
 165 170 175

Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile  
 180 185 190

Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Gly Ser Leu Ser  
 225 230 235 240

Gly Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1470

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1470

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Arg  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30  
 Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45  
 Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val  
 50 55 60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Asp Phe Tyr Asp Ile Leu Thr Gly Tyr His Asp Ala Phe Asp  
 100 105 110  
 Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln  
 130 135 140  
 Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys  
 145 150 155 160  
 Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys  
 165 170 175  
 Pro Gly Gln Ala Pro Val Leu Val Val Tyr Ala Lys Asn Lys Arg Pro  
 180 185 190  
 Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala  
 195 200 205  
 Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220  
 Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1471

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1471

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Pro Gly Phe Thr Phe Ser Asn Ala  
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Ala Asp Tyr Ala Ala  
50 55 60

Pro Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ser Lys Asn Thr  
65 70 75 80

Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Asp Val Tyr  
85 90 95

Tyr Cys Thr Thr Asp Val Asp Asp Ile Leu Thr Gly Tyr Ser Trp Asp  
100 105 110

Tyr Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Ile Gly Gly Tyr Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1472

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1472

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe  
 100 105 110

Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr



145                      150                      155                      160  
 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln  
                                  165                      170                      175  
 Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
                                  180                      185                      190  
 Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
                                  195                      200                      205  
 Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
                                  210                      215                      220  
 Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
                                  225                      230                      235                      240  
 Gly Thr Lys Leu Thr Val Leu Gly  
                                  245  
  
 <210> 1473  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1473  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
   1                                  5                                  10                                  15  
  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
                                   20                                  25                                  30  
  
 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
                                   35                                  40                                  45  
  
 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
                                   50                                  55                                  60  
  
 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
                                   65                                  70                                  75                                  80  
  
 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
                                   85                                  90                                  95  
  
 Ala Arg Ala Ala Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
                                   100                                  105                                  110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly His Asn Tyr Val Ser  
 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Lys Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1474

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1474

Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Lys Gly Ser Gly Tyr Ser Phe Ser Arg Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Gly Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Asn Phe  
 50 55 60

Gln Gly Arg Ala Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Gly Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Met His Tyr Asp Ile Leu Thr Gly Tyr Tyr Thr Gly Leu  
100 105 110

Ala Phe Asp Met Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu  
130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Thr Tyr Gly Lys Asn  
180 185 190

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1475

<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids.

&lt;220&gt;

&lt;221&gt; Site

&lt;222&gt; (30)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 1475

Gln Val Gln Leu Gly Ala Val Leu Gly Ala Lys Val Lys Lys Pro Gly  
 1 5 10 15

Ser Ser Val Lys Val Ser Cys Arg Ala Ser Xaa Gly Thr Xaa Arg Gly  
 20 25 30

Tyr Thr Val Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp  
 35 40 45

Met Gly Arg Ile Asn Pro Met Ser Asn Gly Ala Asn Tyr Ala Gln Lys  
 50 55 60

Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala  
 65 70 75 80

Tyr Leu Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr  
 85 90 95

Cys Ala Arg Gly Gly Tyr Asp Ile Leu Thr Gln Tyr Pro Ala Glu Phe  
 100 105 110

Phe His Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser  
 130 135 140

Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr  
 145 150 155 160

Val Thr Ile Thr Cys Gln Gly Asp Ser Val Arg Asn Phe Tyr Ala Ser  
 165 170 175

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Ile Tyr Gly  
 180 185 190

Gln Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Arg  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp

210                      215                      220  
 Glu Gly Val Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Thr Asn Pro Val  
 225                      230                      235                      240  
 Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
                     245                      250  
 <210> 1476  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1476  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
   1                      5                      10                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Ser  
                     20                      25                      30  
 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Leu  
                     35                      40                      45  
 Gly Gly Ile Ile Pro Ile Ser Asn Ser Pro Val Tyr Ala Gln Lys Phe  
                     50                      55                      60  
 Gln Asp Arg Val Thr Ile Thr Ala Asp Arg Leu Thr Thr Thr Ala Phe  
   65                      70                      75                      80  
 Leu Glu Leu Thr Gly Leu Lys His Glu Asp Thr Ala Val Tyr Tyr Cys  
                     85                      90                      95  
 Ala Arg Asp Phe Gly Val Ile Gly Asp Tyr Arg Pro Phe Asp Tyr Trp  
                     100                      105                      110  
 Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
                     115                      120                      125  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro  
   130                      135                      140  
 Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr  
 145                      150                      155                      160  
 Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln  
                     165                      170                      175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys  
 180 185 190

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn  
 195 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1477

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1477

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Leu Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Ser Ser Phe Ser Asp Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Glu Thr Val Pro Ile Leu Gly Thr Gln Thr Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Ser Ala Asp Glu Leu Thr Arg Thr Thr Phe  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Lys Ser Ser Asn Pro Val Tyr Gly Leu Asp Val Trp Gly Arg Gly  
 100 105 110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala  
130 135 140

Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser  
145 150 155 160

Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly  
165 170 175

Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly  
180 185 190

Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu  
195 200 205

Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala  
210 215 220

Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1478  
<211> 251  
<212> PRT  
<213> Homo sapiens

<400> 1478  
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
20 25 30

Thr Met His Trp Val Arg Gln Ala Ser Gly Gln Gly Pro Glu Trp Met  
35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
                             85                            90                            95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
                             100                            105                            110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
                             115                            120                            125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
                             130                            135                            140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
                             145                            150                            155                            160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
                             165                            170                            175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
                             180                            185                            190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
                             195                            200                            205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
                             210                            215                            220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
                             225                            230                            235                            240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                             245                            250

<210> 1479

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1479

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
                             1                            5                            10                            15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
                             20                            25                            30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met



35                                      40                                      45  
 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
     50                                      55                                      60  
 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
     65                                      70                                      75                                      80  
 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
                                     85                                      90                                      95  
 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
                                     100                                      105                                      110  
 Asp Ile Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly  
                                     115                                      120                                      125  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
                                     130                                      135                                      140  
 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
     145                                      150                                      155                                      160  
 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
                                     165                                      170                                      175  
 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
                                     180                                      185                                      190  
 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
                                     195                                      200                                      205  
 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
                                     210                                      215                                      220  
 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
     225                                      230                                      235                                      240  
 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                     245                                      250

&lt;210&gt; 1480

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1480

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ser Phe Asp Asn Tyr  
 20 25 30

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asp Gly Asp Arg Asn Tyr Ala Gln Lys Leu  
 50 55 60

Arg Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Asp Arg Asp Ile Leu Thr Asn Tyr Tyr Leu Glu Tyr Phe  
 100 105 110

Gln His Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln Thr Ala Ser  
 145 150 155 160

Ile Thr Cys Ser Gly His Asn Leu Gly Asp Lys Tyr Val Ser Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ser Pro Val Leu Val Ile Tyr Gln Asp Thr  
 180 185 190

Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Asn Ser Gly  
 195 200 205

Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met Asp Glu Ala  
 210 215 220

Asp Tyr Ser Cys Gln Thr Trp Asp Gly Ser Thr Ser Ser Val Val Phe

225                      230                      235                      240  
  
 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                          245                      250  
  
 <210> 1481  
 <211> 259  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1481  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
   1                      5                      10                      15  
  
 Ser Val Lys Val Ser Cys Arg Val Ser Gly Gly Ser Phe Thr Asp Asp  
                          20                      25                      30  
  
 Ser Ile Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
   35                      40                      45  
  
 Gly Gly Thr Ile Pro Leu Ala Asn Arg Ala Asn Tyr Ala Gln Lys Phe  
   50                      55                      60  
  
 Arg Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ala Thr Val Phe  
   65                      70                      75                      80  
  
 Leu Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Leu Tyr Tyr Cys  
                          85                      90                      95  
  
 Ala Arg Ser Ser Pro Pro Lys Trp Tyr Asp Ala Leu Thr Gly Asp Ser  
                          100                      105                      110  
  
 Ser Tyr His Ser Ala Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr  
                          115                      120                      125  
  
 Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
   130                      135                      140  
  
 Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr  
   145                      150                      155                      160  
  
 Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile  
                          165                      170                      175  
  
 Gly Gly His Thr Val Asn Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro  
                          180                      185                      190

Lys Leu Leu Ile Phe Ser Asn Asn Gln Arg Pro Ser Gly Val Pro Ala  
 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser  
 210 215 220

Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp  
 225 230 235 240

Asp Ser Leu Asn Gly His Trp Val Phe Gly Gly Gly Thr Lys Leu Thr  
 245 250 255

Val Leu Gly

<210> 1482

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1482

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Ile Val Pro Ile Leu Gly Arg Thr Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Lys Thr Leu Gly Asp Gln Leu Val Glu Ala Tyr Tyr Tyr  
 100 105 110

Asp Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala  
 130 135 140

Leu Ser Ser Glu Leu Thr Gln Asp Pro Thr Val Ser Val Ala Leu Gly  
 145 150 155 160

Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Thr Thr Tyr Tyr  
 165 170 175

Gly Ser Trp Tyr Gln His Lys Pro Gly Gln Ala Pro Val Leu Val Ile  
 180 185 190

Phe Gly Asn Asn Asn Arg Pro Ser Arg Ile Pro Asp Arg Phe Ser Gly  
 195 200 205

Ser Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser Arg Asp Asn Ser Asp Asn  
 225 230 235 240

Asp Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1483

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1483

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Asn Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Ser His  
 20 25 30

Thr Phe Ala Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Met Phe Asp Thr Ala Val Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Ser  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Lys Leu Gly Arg Thr Ser Arg Asp Leu Leu Thr Gly Tyr His Phe  
100 105 110

Tyr Asn Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala  
130 135 140

Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly  
145 150 155 160

Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Gly Ser Tyr  
165 170 175

Ala Asn Trp Tyr Arg Gln Lys Pro Gly Gln Ala Pro Val Leu Val Met  
180 185 190

Tyr Gly Arg Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn  
225 230 235 240

Pro Asp Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250 255

<210> 1484

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1484

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
20 25 30

Gly Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

35                                      40                                      45  
 Gly Arg Val Val Pro Gly Phe Glu Thr Thr Asn Tyr Ser Gln Lys Phe  
     50                                      55                                      60  
 Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Trp Thr Ala Thr Ser Tyr  
     65                                      70                                      75                                      80  
 Met Glu Leu Asn Gly Leu Arg Ser Glu Asp Thr Ala Ile Tyr Tyr Cys  
                                     85                                      90                                      95  
 Ala Arg Asp Asp Tyr Asp Ile Leu Thr Gly Ser Leu Tyr Tyr Phe Asp  
                                     100                                      105                                      110  
 Ser Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
                                     115                                      120                                      125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
                                     130                                      135                                      140  
 Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
     145                                      150                                      155                                      160  
 Ile Thr Cys Gln Gly Asp Asn Leu Arg Thr Tyr Pro Pro Thr Trp Tyr  
                                     165                                      170                                      175  
 Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn  
                                     180                                      185                                      190  
 Asn Arg Pro Leu Gly Ile Pro Asp Arg Phe Ser Gly Phe Asn Ser Gly  
                                     195                                      200                                      205  
 Asn Thr Ala Ser Leu Thr Ile Ser Gly Ala Gln Ala Glu Asp Glu Ala  
                                     210                                      215                                      220  
 Asp Tyr Tyr Cys Ser Ser Arg Asp Tyr Ser Gly Asn Gln Val Ile Phe  
     225                                      230                                      235                                      240  
 Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
                                     245                                      250

&lt;210&gt; 1485

&lt;211&gt; 259

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1485

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Asp Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140

Ala Val Leu Thr Gln Pro Ser Ser Leu Ser Ala Ser Pro Gly Ala Ser  
 145 150 155 160

Ala Ser Leu Thr Cys Thr Leu Arg Ser Asp Ile Asn Leu Glu Thr Ser  
 165 170 175

Arg Ile Tyr Trp Phe Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Leu  
 180 185 190

Leu Arg Tyr Gln Ser Asp Ser Asp Asn His Leu Asp Ser Gly Val Pro  
 195 200 205

Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile Leu  
 210 215 220

Leu Ile Ser Gly Val Gln Ser Glu Asp Glu Ala Asp Tyr His Cys Met



225

230

235

240

Ile Trp His Ser Gly Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr  
245 250 255

Val Leu Gly

<210> 1486

<211> 250

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> Site

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 1486

Gln Met Gln Leu Val Gln Ser Gly Gly Gly Leu Ile Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Lys Ala Ser Gly Leu Thr Phe Asn Ser His  
20 25 30

Trp Met Ser Trp Val Arg Gln Gly Pro Gly Lys Gly Leu Glu Trp Leu  
35 40 45

Ala Asn Ile Xaa Gln Asp Gly Ser Glu Lys Tyr Tyr Met Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
65 70 75 80

Leu Gln Met Xaa Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Val	Arg	Asp	Arg	Ala	Asp	Ile	Leu	Thr	Gly	Tyr	Asn	Asp	Ala	Phe	Asp
			100					105					110		

Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
130 135 140

Leu Thr Gln Asp Pro Ala Met Ser Val Ala Leu Gly Gln Thr Val Trp  
145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Ser Tyr Ala Ser Trp Tyr  
165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Met Tyr Ala Lys Asn  
180 185 190

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
210 215 220

Asp Tyr Tyr Cys Asp Ser Arg Asp Ser Ser Arg His His Val Met Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1487

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1487

Glu Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu  
35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe  
50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys

85 90 95  
 Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val  
 100 105 110  
 Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr  
 130 135 140  
 Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser  
 145 150 155 160  
 Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp  
 165 170 175  
 Tyr Gln Gln Leu Pro Gly Ala Ala Pro Lys Leu Leu Ile His Thr Asn  
 180 185 190  
 Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205  
 Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu  
 210 215 220  
 Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Arg Ser Leu Ser Ala Trp Val  
 225 230 235 240  
 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250  
 <210> 1488  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1488  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30  
 Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu  
 130 135 140

Ser Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ser Pro Gly Gln  
 145 150 155 160

Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Arg Asn Lys Tyr Ala  
 165 170 175

Phe Trp Tyr Gln Gln Arg Pro Gly Gln Ser Pro Ala Leu Ile Ile Tyr  
 180 185 190

Gln Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 195 200 205

Asn Ala Gly Asn Thr Ala Thr Leu Thr Ile Ser Gly Thr Leu Ala Met  
 210 215 220

Asp Glu Ala Val Tyr Tyr Cys Gln Thr Trp Asp Ser Ser Ala Gly Asn  
 225 230 235 240

Ala Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1489

<211> 254

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1489

Gln Leu Gln Leu Gln Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Asp Tyr  
 20 25 30

Ser Leu His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Pro Lys Ser Gly Ala Thr Asn Ser Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Ser Asn Asp Ile Leu Thr Gly Trp Gly Gly Tyr Asn Trp  
 100 105 110

Phe Asp Pro Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser  
 130 135 140

Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp  
 165 170 175

Val His Trp Tyr Gln Gln Val Pro Gly Thr Ala Pro Lys Leu Leu Ile  
 180 185 190

Phe Asn Asn Ser Gly Arg Pro Ser Gly Val Pro Asp Arg Tyr Ser Gly  
 195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser  
 225 230 235 240

Gly Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1490

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1490

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu  
 130 135 140

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln  
 145 150 155 160

Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Asn Tyr Phe Ala  
 165 170 175

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Ile Ile Tyr  
 180 185 190

Gly Lys Thr Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser  
 195 200 205

Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Lys  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Arg Asp Ser Ser Gly Asn His  
 225 230 235 240

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1491

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1491

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Thr Ser  
 130 135 140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
 145 150 155 160

Asn Ile Gly Ser Asn Tyr Val Tyr Trp Tyr Gln Gln Phe Pro Gly Thr  
 165 170 175

Ala Pro Lys Leu Leu Ile Asn Arg Asn Asn Gln Arg Pro Ser Gly Val  
 180 185 190

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
 195 200 205

Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala  
 210 215 220

Trp Asp Asp Ser Leu Ser Gly Tyr Val Phe Gly Thr Gly Thr Lys Val  
 225 230 235 240

Thr Val Leu Gly

<210> 1492  
 <211> 247  
 <212> PRT  
 <213> Homo sapiens

<400> 1492  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Lys Gly Thr Leu



100 105 110  
 Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125  
 Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser  
 130 135 140  
 Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Arg Ser Gly Ser  
 145 150 155 160  
 Asn Ile Gly Ala Gly Asn Asp Val His Trp Tyr Gln Gln Phe Pro Gly  
 165 170 175  
 Thr Ala Pro Lys Leu Leu Ile Tyr Ala Asn Asn Asn Arg Pro Ser Gly  
 180 185 190  
 Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu  
 195 200 205  
 Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln  
 210 215 220  
 Ser Tyr Asp Asn Arg Leu Ser Gly Gly Asp Val Val Phe Gly Gly Gly  
 225 230 235 240  
 Thr Lys Leu Thr Val Leu Gly  
 245

&lt;210&gt; 1493

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1493

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala,  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
100 105 110

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
130 135 140

Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile  
145 150 155 160

Ser Cys Ser Gly Ser Thr Ser Asn Ile Ala Thr Asn Ala Val Asn Trp  
165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn  
180 185 190

Thr Glu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ala Thr Trp Asp Asp Ser Leu Ala Gly Gln Gly  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1494

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1494

Gln Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Ser Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140

Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg  
 145 150 155 160

Val Thr Ile Ser Cys Thr Gly Asn Ser Ser Asn Ile Gly Ala Gly Tyr  
 165 170 175

Glu Val His Trp Tyr Gln Leu Val Pro Gly Thr Ala Pro Lys Leu Leu  
 180 185 190

Ile Tyr Gly Asn Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 195 200 205

Ala Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asn Tyr Tyr Cys Gln Ser Tyr Asp Arg Ser Leu  
 225 230 235 240

Ser Gly Ser His Ala Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 245 250 255

Gly

&lt;210&gt; 1495

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1495

Glu Val Gln Leu Val Glu Thr Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Ser  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Ala Glu Tyr Phe  
 100 105 110

Gln His Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val  
 130 135 140

Val Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Arg Val Thr  
 145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Asn Ser Val Ser  
 165 170 175

Trp Tyr Gln Gln Leu Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Asn  
 180 185 190

Asn Ser Asn Arg Pro Ser Gly Val Pro Gly Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Asn Ser Leu Asn Gly Val  
 225 230 235 240

Leu Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1496

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1496

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Tyr  
 20 25 30

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Val Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Arg Asp Ile Ser Ala Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ser Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Trp Val Pro Ala  
 100 105 110

Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser Val Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Gly Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
 165 170 175

Trp Tyr Gln Gln Tyr Pro Gly Lys Ala Pro Lys Leu Ile Val Asn Glu  
 180 185 190

Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala Asn Tyr Tyr Cys Ala Ser Tyr Ala Gly Asn Asn Asn Val Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1497  
 <211> 259  
 <212> PRT  
 <213> Homo sapiens

<400> 1497  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Met Ile Pro Thr Phe Gly Thr Ala Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr

100 105 110  
 Phe His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr  
 115 120 125  
 Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 130 135 140  
 Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala  
 145 150 155 160  
 Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile  
 165 170 175  
 Gly Ala Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala  
 180 185 190  
 Pro Lys Leu Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro  
 195 200 205  
 Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu Ala Ile  
 210 215 220  
 Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr  
 225 230 235 240  
 Asp Ser Ser Leu Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Val Thr  
 245 250 255  
 Val Leu Gly  
 <210> 1498  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1498  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30  
 Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser  
 130 135 140

Gly Ala Pro Gly His Ser Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
 145 150 155 160

Asn Ile Gly Gly Asn Ser Val Tyr Trp Tyr Gln Gln Val Pro Gly Thr  
 165 170 175

Ala Pro Lys Leu Leu Ile Tyr Asp Asn Gly Lys Arg Pro Ser Gly Ile  
 180 185 190

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Thr Leu Ala  
 195 200 205

Ile Ala Gly Leu Gln Thr Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr  
 210 215 220

Trp Asp Ser Ser Leu Ser Ala Val Val Phe Gly Gly Gly Thr Lys Val  
 225 230 235 240

Thr Val Leu Gly

<210> 1499

<211> 253

<212> PRT

<213> Homo sapiens



&lt;400&gt; 1499

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Val Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Met Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Thr Arg Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Val Phe Asp Pro Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu  
 130 135 140

Glu Thr Thr Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly  
 145 150 155 160

Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Arg Asn Ser  
 165 170 175

Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu  
 180 185 190

Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser  
 195 200 205

Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu  
 210 215 220

Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro  
 225 230 235 240

Val Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg  
245 250

<210> 1500

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1500

Gln Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Ser Thr His  
20 25 30

Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Gly Tyr Asn Gly Asn Thr Asn Phe Ala Gln Lys Val  
50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Arg Ser Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr His Thr Pro Leu  
100 105 110

Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Pro Val  
130 135 140

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr  
145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn  
165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser  
180 185 190

Asn Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Arg  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp  
 210 215 220

Gln Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Ala Val  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1501

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1501

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Gln Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Val Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Ser  
 180 185 190

His Arg Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Ala Ser Thr Ser  
 195 200 205

Asp Thr Ala Ala Thr Leu Ala Ile Thr Gly Leu Gln Thr Gly Asp Glu  
 210 215 220

Ala Asp Tyr Phe Cys Gly Ala Trp Asp Ser Lys Leu Asn Ala Tyr Val  
 225 230 235 240

Phe Gly Thr Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1502

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1502

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ile Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser

100 105 110  
 Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu  
 130 135 140  
 Ser Tyr Val Leu Thr Gln Pro Pro Ser Leu Ser Val Ser Pro Gly Gln  
 145 150 155 160  
 Thr Ala Ser Ile Thr Cys Ser Gly Asp Lys Leu Gly Asp Lys Tyr Val  
 165 170 175  
 Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Val Met Val Ile Tyr  
 180 185 190  
 Gln Asp Arg Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 195 200 205  
 Asn Ser Gly Asn Ala Ala Thr Leu Thr Ile Ser Gly Thr Gln Ala Met  
 210 215 220  
 Asp Glu Ala Glu Tyr Tyr Cys Gln Ala Trp Asp Arg Thr Thr Ala Asp  
 225 230 235 240  
 Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250  
 <210> 1503  
 <211> 261  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1503  
 Glu Val Gln Leu Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro  
 1 5 10 15  
 Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser  
 20 25 30  
 Asn Phe Asp Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu  
 35 40 45  
 Trp Val Ala Val Ile Ser Tyr Asn Gly Arg Thr Lys Tyr Tyr Leu Asp  
 50 55 60

Ser Val Lys Gly Arg Phe Ile Ile Ser Arg Asp Asn Ser Lys His Thr  
65 70 75 80

Val Asp Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr  
85 90 95

Tyr Cys Ala Lys Gly Gly Gly Tyr Asp Ile Leu Thr Gly Tyr Ser Tyr  
100 105 110

Pro Tyr Leu Tyr Tyr Gly Leu Asp Val Trp Gly Arg Gly Thr Met Val  
115 120 125

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
130 135 140

Gly Gly Ser Ala Leu Ser Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser  
145 150 155 160

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
165 170 175

Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Val Pro Gly Thr  
180 185 190

Ala Pro Lys Leu Leu Ile Tyr Ser Asn Ser His Arg Ser Ser Gly Val  
195 200 205

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
210 215 220

Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Ala Tyr Tyr Cys Glu Ser  
225 230 235 240

Arg Asp Asp Ser Leu Asn Gly Asn Val Val Phe Gly Gly Gly Thr Lys  
245 250 255

Leu Thr Val Leu Gly  
260

<210> 1504

<211> 255

<212> PRT

<213> Homo sapiens

&lt;400&gt; 1504

Glu Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr  
 20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Met Asn Pro Asn Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys  
 85 90 95

Ala Arg Gly Arg Gly Tyr Asp Val Leu Thr Gly Tyr Phe Thr Gly Ser  
 100 105 110

Pro Leu Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140

Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg  
 145 150 155 160

Val Thr Ile Ser Cys Thr Gly Ile Ser Ser Asn Ile Gly Ala Gly Tyr  
 165 170 175

Asp Val His Trp Tyr Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu  
 180 185 190

Ile Tyr Gly Asn Thr Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Ala Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asn Tyr Tyr Cys Gln Ser Tyr Asp Asn Arg Leu  
 225 230 235 240

Ser Gly His Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255

<210> 1505

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1505

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ile Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
 130 135 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ser Ser Asp Asp Val His  
 165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Arg Leu Val Ile Tyr Gly  
 180 185 190



Asn Asp Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Ala Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Ser Ala  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1506

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1506

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Ala Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Lys Val Thr Ile Thr Ala Asp Lys Leu Thr Ile Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ile Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
 130 135 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile  
145 150 155 160

Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ser Ser Val Asp Val His  
165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Arg Leu Val Ile Tyr Gly  
180 185 190

Asn Glu Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Ala Ser Lys  
195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Ser Ala  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1507

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1507

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Tyr Thr Phe Arg Glu Tyr  
20 25 30

Gly Ile Ile Trp Ala Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Ser Gly Gln Asn Gly Lys Thr Asn Leu Ala Gln Arg Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Thr Asp Thr Leu Thr Ser Thr Ala Phe  
65 70 75 80

Met Glu Leu Thr Asn Leu Arg Val Asp Asp Thr Val Met Tyr Tyr Cys  
85 90 95

Ala Ala Ser Gly Pro Gly Trp Phe Asp Pro Trp Gly Lys Gly Thr Leu

100 105 110  
 Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125  
 Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser  
 130 135 140  
 Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
 145 150 155 160  
 Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr  
 165 170 175  
 Ala Pro Lys Leu Leu Ile Tyr Ser Asn Asn Gln Arg Pro Ser Gly Val  
 180 185 190  
 Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
 195 200 205  
 Ile Ser Gly Leu Gln Ser Glu Asp Gly Ala Asp Tyr Tyr Cys Ala Ala  
 210 215 220  
 Trp Asp Asp Ser Leu Asn Gly Tyr Val Phe Gly Thr Gly Thr Lys Leu  
 225 230 235 240  
 Thr Val Leu Gly

<210> 1508  
 <211> 254  
 <212> PRT  
 <213> Homo sapiens

<400> 1508  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Arg Phe Asn Arg Tyr  
 20 25 30  
 Ala Thr Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45  
 Gly Gly Ile Ile Pro Leu Phe Gly Thr Thr Lys Tyr Ala Gln Arg Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
85 90 95

Ala Thr Thr Asp Arg Phe Gly Ala Lys Asp Val Thr Ala Arg Trp Gly  
100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala  
130 135 140

Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val  
145 150 155 160

Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp  
165 170 175

Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile  
180 185 190

Tyr Gly Asn Ser Asn Arg Pro Ser Val Val Pro Asp Arg Phe Ser Gly  
195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala  
210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser  
225 230 235 240

Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1509

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1509

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
                   20                  25                  30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
           35                  40                  45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
       50                  55                  60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr  
   65                  70                  75                  80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
                   85                  90                  95

Ala Arg Glu Gln Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Glu Gly  
           100                  105                  110

Gly Trp Phe Asp Pro Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser  
       115                  120                  125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala  
       130                  135                  140

Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly  
   145                  150                  155                  160

Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr  
           165                  170                  175

Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile  
       180                  185                  190

Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly  
       195                  200                  205

Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala  
   210                  215                  220

Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn  
   225                  230                  235                  240

Pro Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
           245                  250

&lt;210&gt; 1510

&lt;211&gt; 251

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1510

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Val Val Lys Pro Ser Glu  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Phe Ile Ser Ser Arg  
 20 25 30

Thr Ser Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu  
 35 40 45

Trp Ile Gly Asn Ile Tyr Tyr Thr Gly Lys Thr Tyr Tyr Ser Pro Ser  
 50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Ala Asp Thr Ser Lys Asn Gln Leu  
 65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr  
 85 90 95

Cys Ala Arg Ala Gly Tyr Asp Leu Leu Thr Gly Tyr Pro Phe Tyr Phe  
 100 105 110

Asp Ser Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val  
 130 135 140

Leu Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr  
 145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Thr Thr Val Ala  
 165 170 175

Trp Tyr Gln Gln Val Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser  
 180 185 190

Asn Asp Arg Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Pro His Val Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1511

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1511

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Lys Tyr  
 20 25 30

Glu Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Asn Ile Lys Glu Asp Gly Arg Glu Lys Tyr Tyr Val Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asp Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Val Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Val Arg Gly Arg Asn Tyr Tyr Asp Phe Leu Thr Gly Tyr Asn Phe Asn  
 100 105 110

Leu Gly Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala  
 130 135 140

Leu Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly  
 145 150 155 160

Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Asn Tyr Tyr  
 165 170 175

Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile  
 180 185 190

Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly  
 195 200 205

Ser Ser Ser Gly Ile Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala  
 210 215 220

Asp Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Thr Thr Gly His  
 225 230 235 240

His Leu Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1512

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1512

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Phe Thr Phe Ser Asn Tyr  
 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Val Ile Ser Tyr Asp Gly Thr Tyr Lys Ser Tyr Ala Asp Ser Met  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Asn Tyr Asp Ser Leu Thr Gly Tyr Tyr Asn Tyr Phe Asp  
 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly



115                      120                      125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
     130                      135                      140  
 Thr Gln Pro Ser Ser Asp Ser Gly Thr Pro Gly Gln Arg Val Thr Ile  
     145                      150                      155                      160  
 Ser Cys Ser Gly Ser Gly Ser Asn Ile Gly Ser Asn Ala Val Ser Trp  
                     165                      170                      175  
 Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn  
                     180                      185                      190  
 Asn Leu Arg Pro Ser Gly Val Pro Asp Arg Phe-Ser Gly Ser Lys Ser  
                     195                      200                      205  
 Ala Thr Ser Ala Ala Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
                     210                      215                      220  
 Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Thr Leu Asn Ala Glu Val  
     225                      230                      235                      240  
 Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
                     245                      250  
  
 <210> 1513  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1513  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
     1                      5                      10                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Gly Arg  
                     20                      25                      30  
 Thr Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                     35                      40                      45  
 Gly Gly Ser Asp Pro Pro Tyr Gly Glu Pro Ile Tyr Ala Gln Lys Phe  
                     50                      55                      60  
 Gln Asp Arg Val Thr Ile Thr Glu Asp Thr Leu Thr Asn Thr Ala Tyr  
     65                      70                      75                      80

Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
                             85                            90                            95

Ala Arg Asp Gln Arg Lys Ala Gln Asp Ile Trp Gly Arg Gly Thr Met  
                             100                            105                            110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
                             115                            120                            125

Gly Gly Gly Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser  
                             130                            135                            140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Gly Ser Ala  
                             145                            150                            155                            160

Asn Ile Gly Thr Ile Tyr Val Asn Trp Tyr Gln Gln Val Pro Gly Ala  
                             165                            170                            175

Ala Pro Lys Leu Leu Met Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val  
                             180                            185                            190

Phe Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
                             195                            200                            205

Ile Ser Gly Leu Arg Ser Glu Asp Glu Ser Asp Tyr Tyr Cys Ala Thr  
                             210                            215                            220

Trp Asp Asp Ser Leu Arg Arg Val Val Phe Gly Gly Gly Thr Lys Leu  
                             225                            230                            235                            240

Thr Val Leu Gly

<210> 1514

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1514

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu  
                             1                            5                            10                            15

Ser Leu Lys Ile Ser Cys Gln Gly Ser Gly Tyr Thr Phe Thr Asp Tyr  
                             20                            25                            30

Trp Ile Ser Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Ile Asp Pro Ser Asn Ser Tyr Asp Asp Tyr Ser Pro Ser Phe  
 50 55 60

Lys Gly Arg Val Ile Ile Ser Ser Asp Glu Ser Asn Ala Thr Ala Tyr  
 65 70 75 80

Leu Val Trp Asp Ser Leu Gln Ala Ser Asp Ser Ala Thr Tyr Tyr Cys  
 85 90 95

Ala Arg Leu Lys Ala Pro Tyr Tyr Asp Leu Leu Thr Gly Tyr His Leu  
 100 105 110

Pro Lys Trp Phe Asp Thr Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 130 135 140

Ala Leu Ser Tyr Glu Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro  
 145 150 155 160

Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Asn Thr Ser Asn Ile Gly  
 165 170 175

Thr Asn Tyr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys  
 180 185 190

Leu Leu Ile Tyr Arg Asn His Gln Trp Pro Ser Gly Val Pro Asp Arg  
 195 200 205

Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly  
 210 215 220

Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp  
 225 230 235 240

Ser Leu Arg Gly Tyr Val Phe Gly Thr Gly Thr Lys Val Thr Val Leu  
 245 250 255

Gly

&lt;210&gt; 1515

&lt;211&gt; 243

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1515

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Lys Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Leu Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val  
 130 135 140

Ser Val Ala Pro Gly Lys Thr Ala Arg Ile Thr Cys Gly Gly Asp Asn  
 145 150 155 160

Ile Gly Ser Lys Ser Val His Trp Tyr Gln Gln Lys Pro Gly Gln Ala  
 165 170 175

Pro Val Leu Val Thr Asp Tyr Asp Ile Asp Arg Pro Ser Gly Ile Pro  
 180 185 190

Glu Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Thr Leu Thr Ile  
 195 200 205

Ser Arg Val Glu Gly Gly Asp Glu Ala Asp Tyr Tyr Cys Gln Val Trp  
 210 215 220

Asp Ser Val Thr Asp His Val Val Phe Gly Gly Gly Thr Lys Val Thr  
 225 230 235 240

Val Leu Gly

<210> 1516

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1516

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser  
 130 135 140

Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Arg Ser  
 145 150 155 160

Asn Ile Gly Thr Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly  
 165 170 175

Thr Ala Pro Lys Leu Leu Ile Tyr Ala Asp Asn Asn Arg Pro Ser Gly  
 180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu  
 195 200 205

Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln  
 210 215 220

Ser His Asp Ser Ser Leu Gly Gly Ser Val Phe Gly Gly Gly Thr Lys  
 225 230 235 240

Val Thr Val Leu Gly  
 245

<210> 1517

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1517

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Val  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly

115                                      120                                      125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
     130                                      135                                      140  
 Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Trp Val Thr Ile  
     145                                      150                                      155                                      160  
 Pro Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp  
                                     165                                      170                                      175  
 Tyr Gln His Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn  
                                     180                                      185                                      190  
 Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
                                     195                                      200                                      205  
 Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
     210                                      215                                      220  
 Ala Asn Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly His Val  
     225                                      230                                      235                                      240  
 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                     245                                      250  
  
 <210> 1518  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1518  
 Gln Val Gln Leu Val Gln Ser Gly Thr Glu Val Lys Lys Pro Gly Ser  
     1                                      5                                      10                                      15  
 Ala Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Arg  
                                     20                                      25                                      30  
 Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                                     35                                      40                                      45  
 Gly Gly Ile Gly Pro Met Ser Gly Thr Pro Asn Tyr Ala Gln Lys Phe  
     50                                      55                                      60  
 Gln Gly Arg Val Thr Met Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
     65                                      70                                      75                                      80

Leu Glu Leu Ser Asn Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
                     85                    90                    95

Ala Thr Gly Arg Tyr Tyr Asp Met Leu Thr Arg Gly Gly Tyr Phe Asp  
                     100                    105                    110

Tyr Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
                     115                    120                    125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
                     130                    135                    140

Thr Gln Pro Ser Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Val  
                     145                    150                    155                    160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Tyr Asn Ser Val Asn Trp  
                     165                    170                    175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn  
                     180                    185                    190

Ser Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
                     195                    200                    205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
                     210                    215                    220

Ala Asp Tyr Tyr Cys Ala Ala Trp Tyr Asp Ser Leu Ser Gly His Val  
                     225                    230                    235                    240

Val Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
                     245                    250

<210> 1519

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1519

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
                     1                    5                    10                    15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
                     20                    25                    30



Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Lys Arg Gln Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Phe Asp  
 100 105 110

Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
 130 135 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Ser Val  
 145 150 155 160

Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His  
 165 170 175

Trp Tyr Gln Gln Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly  
 180 185 190

Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Val Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser Gly Thr  
 225 230 235 240

Ile Phe Gly Thr Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1520

<211> 253

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1520

Glu Val Gln Leu Val Gln Ser Gly Gly Glu Val Lys Arg Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Arg Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Lys Thr Ser Phe Ala Glu Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Thr Thr Val Asp  
 65 70 75 80

Met Glu Leu Arg Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Thr Asp Tyr Asp Ile Leu Thr Gly Tyr Pro Met Gly Tyr Phe  
 100 105 110

Asp Pro Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val  
 130 135 140

Val Thr Gln Pro Pro Ser Ala Pro Gly Ser Pro Gly Gln Ser Val Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Lys Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Glu Gly Ser Asn Asn Ala  
 225 230 235 240

Tyr Val Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1521

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1521

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Met  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser  
 130 135 140

Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser  
 145 150 155 160

Asn Ile Gly Ala Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly  
 165 170 175

Thr Val Pro Lys Leu Leu Ile Tyr Gly Asp Ser His Arg Pro Ser Gly  
180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu  
195 200 205

Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln  
210 215 220

Ser Phe Asp Asn Ser Leu Ser Ala Ser Ile Phe Gly Gly Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1522

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1522

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
100 105 110

Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln

130                                      135                                      140  
 Ser Val Leu Thr Gln Pro Pro Ser Met Ser Ala Ala Pro Gly Gln Lys  
 145                                      150                                      155                                      160  
 Val Thr Ile Pro Cys Ser Gly Gly Ser Ser Asn Ile Gly Thr Arg Tyr  
                                     165                                      170                                      175  
 Val Ser Trp Tyr Gln Gln Val Pro Gly Thr Val Pro Lys Leu Ile Ile  
                                     180                                      185                                      190  
 Tyr Asp Asn Asp Lys Arg Pro Ser Gly Ile Ser Asp Arg Phe Ser Gly  
                                     195                                      200                                      205  
 Ser Lys Ser Gly Thr Ser Ala Phe Leu Gly Ile Thr Gly Leu Gln Thr  
                                     210                                      215                                      220  
 Gly Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Arg Ser Leu Asn  
 225                                      230                                      235                                      240  
 Ala Gly Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
                                     245                                      250  
 <210> 1523  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1523  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
   1                                      5                                      10                                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
                                     20                                      25                                      30  
 Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                                     35                                      40                                      45  
 Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
                                     50                                      55                                      60  
 Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
   65                                      70                                      75                                      80  
 Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
                                     85                                      90                                      95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Lys Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Thr Val Val Ile Gln Glu Pro Ser Leu Thr  
 130 135 140

Val Ser Pro Gly Gly Thr Val Thr Leu Thr Cys Ala Ser Ile Thr Gly  
 145 150 155 160

Ala Val Thr Ser Gly Asn Tyr Pro Asn Trp Phe Gln Gln Lys Pro Gly  
 165 170 175

Gln Ala Pro Arg Ala Leu Ile Tyr Ser Thr Asp Asn Lys His Ser Trp  
 180 185 190

Thr Pro Ala Arg Phe Ser Gly Ser Leu Leu Gly Asp Lys Ala Ala Leu  
 195 200 205

Thr Leu Ser Gly Val Gln Pro Glu Asp Glu Ala Asp Tyr Tyr Cys Leu  
 210 215 220

Leu Tyr Tyr Gly Gly Ala Gln Pro Trp Val Phe Gly Gly Gly Thr Lys  
 225 230 235 240

Val Thr Val Leu Gly  
 245

<210> 1524

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1524

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Thr Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Met  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Leu Pro Val Leu Thr Gln Pro Pro Ser Ala Ser  
 130 135 140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
 145 150 155 160

Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu Pro Gly Thr  
 165 170 175

Ala Pro Lys Leu Leu Ile Tyr Thr Asn Asn Gln Arg Pro Ser Gly Val  
 180 185 190

Pro Asp Arg Val Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
 195 200 205

Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala  
 210 215 220

Trp Asp Asp Ser Phe Asn Gly Trp Val Phe Gly Gly Gly Thr Lys Leu  
 225 230 235 240

Thr Val Leu Gly

<210> 1525

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1525

Gln Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr  
 20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Ala Tyr Phe Cys  
 85 90 95

Ala Arg Gly Ser Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser  
 100 105 110

Pro Leu Asp Tyr Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140

Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Lys  
 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
 180 185 190

Ile His Asp Val Ser Asn Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Ser Ile Ser Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Ser Ser Gly  
 225 230 235 240



Thr Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1526

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1526

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Thr Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr  
20 25 30

Tyr Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Ala Thr Asn His Ala Gln Arg Phe  
50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr  
65 70 75 80

Met Asp Val Ser Gly Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Arg Arg Arg Asp Asp Leu Thr Gly Tyr Leu Tyr Asp Ala  
100 105 110

Phe Asp Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser  
130 135 140

Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr  
145 150 155 160

Val Lys Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser  
165 170 175

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly  
180 185 190

Arg Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Tyr His Leu  
 225 230 235 240

Val Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1527

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1527

Gln Ile Thr Leu Lys Glu Phe Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Gly Ser Ser Gly Phe Thr Phe Pro Glu His  
 20 25 30

Ser Met Asp Trp Val Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile  
 35 40 45

Ala Arg Ser Arg Asn Arg His Val Ser His Ser Thr Asp Tyr Ala Ala  
 50 55 60

Ser Val Lys Gly Arg Phe Thr Val Ser Arg Asp Phe Leu Thr Asn Ser  
 65 70 75 80

Leu Ile Leu Gln Leu Asn Asp Leu Lys Thr Glu Asp Thr Ala Arg Tyr  
 85 90 95

Tyr Cys Ala Ser Gly Tyr Asp Thr Ala Met Gln Tyr Trp Gly Arg Gly  
 100 105 110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val Leu Thr Gln Pro Pro  
 130 135 140

Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly

145                      150                      155                      160  
 Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Gln Leu  
                          165                      170                      175  
 Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asp Asn Arg Arg Pro  
                          180                      185                      190  
 Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala  
                          195                      200                      205  
 Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
                          210                      215                      220  
 Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Tyr Val Phe Gly Thr Gly  
 225                      230                      235                      240  
 Thr Lys Val Thr Val Leu Gly  
                          245  
  
 <210> 1528  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1528  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
   1                      5                      10                      15  
  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
                          20                      25                      30  
  
 Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                          35                      40                      45  
  
 Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
                          50                      55                      60  
  
 Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
   65                      70                      75                      80  
  
 Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
                          85                      90                      95  
  
 Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Gln Gly Thr Leu  
                          100                      105                      110

Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Ser Val Val Thr Gln Pro Pro Ser Ala Ser  
 130 135 140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Thr Ser  
 145 150 155 160

Asn Ile Gly Ser Ser Ser Val Ile Trp Tyr Gln Arg Leu Pro Gly Thr  
 165 170 175

Ala Pro Lys Leu Leu Ile Phe Tyr Asn Asn Gln Arg Pro Ser Gly Val  
 180 185 190

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
 195 200 205

Ile Asn Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr  
 210 215 220

Trp Asp Thr Ser Leu Asn Gly His Val Val Phe Gly Gly Gly Thr Lys  
 225 230 235 240

Leu Thr Val Leu Gly  
 245

<210> 1529

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1529

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ser Ser Gly  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Leu  
 35 40 45

Gly Trp Ile Ser Ala Phe Asn Gly Gln Thr Asn Tyr Ala Gln Lys Val  
 50 55 60

Gln Gly Arg Leu Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Ser  
65 70 75 80

Met Glu Leu Arg Ser Leu Thr Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Arg Arg Asp Ile Leu Thr Gly Ser Asn Phe Gly Gln Asp  
100 105 110

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr  
130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser  
145 150 155 160

Cys Ser Gly Gly Ser Ala Asn Ile Gly Ser Asn Tyr Val Tyr Trp Tyr  
165 170 175

Lys Gln Leu Pro Gly Thr Ala Pro Lys Thr Leu Ile Tyr Thr Thr Asn  
180 185 190

Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly  
195 200 205

Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Glu Gly  
210 215 220

Asp Tyr Tyr Cys Ala Ser Trp Asp Glu Ser Leu Ser Gly Val Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1530

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1530

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Tyr  
 20 25 30

Gly Ile His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Leu  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Tyr Tyr Ser Gln Lys Leu  
 50 55 60

Gln Asp Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Met Gly His Tyr Asp Ile Leu Thr Gly Tyr Arg His Tyr Gly  
 100 105 110

Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser  
 130 135 140

Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr  
 145 150 155 160

Val Thr Ile Thr Cys Gln Gly Asp Ser Leu Lys Ser Tyr Tyr Ala Ser  
 165 170 175

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Val Tyr Asn  
 180 185 190

Lys Asn Ser Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Thr Gln Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Asn Ala Arg Asp Arg Ser Gly Ile His Ser  
 225 230 235 240

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1531

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1531

Lys Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr  
 20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys  
 85 90 95

Ala Arg Gly Ser Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser  
 100 105 110

Pro Leu Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu  
 130 135 140

Asn Phe Met Leu Thr Gln Pro His Ser Val Ser Glu Ser Pro Gly Lys  
 145 150 155 160

Thr Val Thr Ile Ser Cys Thr Arg Ser Ser Gly Tyr Ile Val Ser Asn  
 165 170 175

Tyr Val Gln Trp Tyr Gln Gln Arg Pro Gly Ser Ser Pro Thr Thr Val  
 180 185 190

Ile Tyr Glu Asp Asp Arg Arg Pro Ser Gly Val Pro His Arg Phe Ser  
 195 200 205

Gly Ser Ile Asp Arg Ser Ser Asn Ser Ala Ser Leu Thr Ile Ser Gly  
 210 215 220

Leu Gln Thr Glu Asp Glu Gly Asp Tyr Tyr Cys Gln Ser Tyr Asp Lys  
 225 230 235 240

Thr Ser Arg Val Ile Leu Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
 245 250 255

Gly

<210> 1532

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1532

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Lys Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser  
 130 135 140

Gly Ala Pro Gly Gln Ser Val Ser Val Ser Cys Thr Gly Ser Ile Ser



145                      150                      155                      160  
 Asn Ile Gly Thr Gly Tyr Asp Val His Trp Tyr Gln His Leu Pro Gly  
                                  165                                   170                                   175  
 Arg Gly Pro Lys Val Leu Ile Tyr Gly Asn Asn Asp Arg Pro Trp Gly  
                                  180                                   185                                   190  
 Val Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu  
                                  195                                   200                                   205  
 Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu Gly Asp Tyr Phe Cys Gln  
                                  210                                   215                                   220  
 Thr Tyr Asp Asn Glu Leu Ser Gly Tyr Val Phe Gly Ser Gly Thr Lys  
 225                                   230                                   235                                   240  
 Leu Thr Val Leu Gly  
                                  245  
  
 <210> 1533  
 <211> 243  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1533  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
   1                                    5                                    10                                    15  
  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
                                  20                                    25                                    30  
  
 Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                                  35                                    40                                    45  
  
 Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
                                  50                                    55                                    60  
  
 Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
   65                                    70                                    75                                    80  
  
 Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
                                  85                                    90                                    95  
  
 Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu  
                                  100                                    105                                    110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Leu Ser Tyr Glu Leu Thr Gln Pro Pro Ser Val  
 130 135 140

Ser Val Ser Ala Gly Gln Thr Ala Arg Ile Thr Cys Ser Gly Asp Val  
 145 150 155 160

Leu Ser Lys Lys Tyr Val Tyr Trp Tyr Arg Gln Lys Ser Gly Gln Ala  
 165 170 175

Pro Val Leu Val Ile Tyr Glu Asn Thr Lys Arg Pro Ser Gly Ile Pro  
 180 185 190

Asp Arg Leu Ser Gly Ser Arg Ser Gly Thr Met Ala Thr Leu Thr Val  
 195 200 205

Thr Gly Ala Gln Val Gly Asp Glu Ala Asp Tyr Tyr Cys His Ser Thr  
 210 215 220

Tyr Ile Ser Asn Asp Gln Trp Val Phe Gly Gly Gly Thr Lys Leu Thr  
 225 230 235 240

Val Leu Gly

<210> 1534

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1534

Glu Val Gln Leu Val Gln Ser Gly Gly Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Ser Ser His  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Trp Ser Ser Ala His Asp Asp Asn Thr Lys Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Ala Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Pro Tyr Tyr Asp Pro Leu Thr Ala Tyr Thr Phe Gln Tyr Phe  
100 105 110

Gly Asn Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Glu Thr  
130 135 140

Thr Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg  
145 150 155 160

Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu  
165 170 175

Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr  
180 185 190

Gly Ala Ser Arg Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser  
195 200 205

Gly Ser Gly Thr Asp Phe Ser Leu Thr Ile Ser Arg Leu Glu Pro Glu  
210 215 220

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ile Ser Pro Gly Leu  
225 230 235 240

Ser Phe Gly Gly Gly Thr Lys Val Glu Ile Lys Arg  
245 250

<210> 1535

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1535

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
130 135 140

Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
165 170 175

Gln Gln Arg Pro Gly Gln Ala Pro Ala Leu Val Phe Tyr Gly Lys Asn  
180 185 190

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Leu Asp Gly Asn His Arg Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

&lt;210&gt; 1536

&lt;211&gt; 251

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1536

Glu Val Gln Leu Val Glu Ser Gly Thr Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ala Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Arg  
 20 25 30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Gly Pro Met Ser Gly Thr Pro Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Gly Arg Tyr Tyr Asp Met Leu Thr Arg Gly Gly Tyr Phe Asp  
 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Ile Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Arg Asn Thr Val Thr Trp  
 165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Thr  
 180 185 190

Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Asp Asp Glu  
210 215 220

Ala Asp Tyr Phe Cys Ala Ala Trp Asp Asp Ser Leu Gln Ala Leu Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1537

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1537

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Glu  
1 5 10 15

Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe Thr Ser Tyr  
20 25 30

Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu Glu Trp Met  
35 40 45

Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser Pro Ser Phe  
50 55 60

Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser Thr Ala Tyr  
65 70 75 80

Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met Tyr Tyr Cys  
85 90 95

Ala Arg Leu Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Ser Gly Phe  
100 105 110

Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val  
130 135 140

Leu Thr Gln Pro Ser Ser Val Ser Gly Thr Pro Gly Gln Arg Val Thr  
145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asp Ile Gly Arg Asn Thr Val Asn

165

170

175

Trp Tyr Arg Gln Val Pro Gly Thr Ala Pro Lys Leu Leu Ile His Thr  
180 185 190

Ile Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Trp Asp Asp Ser Leu Asn Ala Trp  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1538  
<211> 251  
<212> PRT  
<213> Homo sapiens

<400> 1538

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Gln Pro Ser Gln  
1 5 10 15

Thr Leu Ser Leu Thr Cys Asn Val Ser Gly Gly Ser Ile Ser Ser Asn  
20 25 30

Ser Asp Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu  
35 40 45

Trp Ile Gly Asn Val Tyr His Thr Gly Thr Thr Phe Tyr Thr Pro Ser  
50 55 60

Leu Arg Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe  
65 70 75 80

Ser Leu Gln Val Ala Ser Val Thr Gly Ala Asp Thr Ala Val Tyr Tyr  
85 90 95

Cys Ala Arg Arg Phe Tyr Asp Leu Leu Thr Gly Tyr Ser Ala Phe Asp  
100 105 110

Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Ala Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Asn Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Ser  
 180 185 190

Ile Arg Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Thr Ser Leu Asn Ala Tyr Val  
 225 230 235 240

Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1539  
 <211> 255  
 <212> PRT  
 <213> Homo sapiens

<400> 1539  
 Gln Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80



Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
                             85                            90                            95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
                             100                            105                            110

Ala Phe Asp Gln Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly  
                             115                            120                            125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
                             130                            135                            140

Ser Val Leu Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg  
                             145                            150                            155                            160

Val Thr Ile Ser Cys Thr Gly Ile Ser Ser Asn Ile Gly Ala Gly Tyr  
                             165                            170                            175

Ala Val Asn Trp Tyr Gln Gln Leu Pro Gly Ala Ala Pro Arg Leu Leu  
                             180                            185                            190

Ile Tyr Gly Asn Val Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
                             195                            200                            205

Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln  
                             210                            215                            220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Arg Leu  
                             225                            230                            235                            240

Ser Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                             245                            250                            255

<210> 1540

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1540

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
                             1                            5                            10                            15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
                             20                            25                            30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Val  
 130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Ser  
 145 150 155 160

Ile Asn Cys Gly Gly Asn Thr Ile Gly Ser Lys Thr Val Gln Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Val Val Val Tyr Asp Asp Asn  
 180 185 190

Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205

Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Asp Asp Gly Ala  
 210 215 220

Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Val Val Phe  
 225 230 235 240

Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1541

<211> 252

<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1541

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu  
 130 135 140

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln  
 145 150 155 160

Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Asn Ser Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Pro Val Ile Tyr  
 180 185 190

Thr Lys Asn Asn Arg Pro Ser Gly Ile Pro Glu Arg Phe Ser Gly Ser  
 195 200 205

Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Arg Asp Arg Ser Gly His Gly  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1542

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1542

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Arg Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Gly Asp Tyr  
 20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Gly Ile Ile Trp Asn Gly Gly Thr Thr Asp Tyr Ala Asp Thr Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Val Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Tyr Tyr Asp Val Leu Thr Gly Leu Phe Tyr Tyr Met Asp  
 100 105 110

Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Pro Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp  
 165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Glu Leu Leu Ile Tyr Ser Asn

180

185

190

Asn Gln Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Tyr Asp Asp Ser Leu Asn Gly Trp Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1543

&lt;211&gt; 253

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1543

Glu Val Gln Leu Val Gln Ser Gly Thr Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Ser Phe Asp Asn Tyr  
 20 25 30

Gly Ile Ala Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asp Gly Asp Arg Asn Tyr Ala Gln Lys Leu  
 50 55 60

Arg Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Pro Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Asp Arg Asp Ile Leu Thr Asn Tyr Tyr Leu Glu Tyr Phe  
 100 105 110

Gln His Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val  
 130 135 140

Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Ser Thr Ser Asn Ile Gly Ala Gly Tyr Asp Val  
 165 170 175

His Trp Tyr Gln Gln Leu Pro Gly Arg Ala Pro Lys Leu Leu Ile Tyr  
 180 185 190

Ala Asn Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Thr Ala Ser  
 195 200 205

Lys Ser Gly Thr Thr Ala Ser Leu Ala Ile Thr Gly Leu Gln Thr Asp  
 210 215 220

Asp Glu Ala Gly Tyr Tyr Cys Gln Ala Tyr Asp Lys Asn Ile Glu Glu  
 225 230 235 240

Tyr Val Phe Gly Ser Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1544

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1544

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
100 105 110

Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
130 135 140

Ser Val Val Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Arg Tyr Asn  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Arg Ala Pro Lys Leu Met  
180 185 190

Ile Tyr Glu Val Asn Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asn Tyr Tyr Cys Ser Ser Tyr Ala Gly Ser Asn  
225 230 235 240

Ile Glu Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1545

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1545

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Thr Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Ser Gly Gln Arg  
 145 150 155 160

Val Thr Ile Pro Cys Ser Gly Ser Ser Ser Asn Ile Gly Ile Gly Ser  
 165 170 175

Val Ser Trp Tyr Gln Gln Phe Pro Gly Ser Ala Pro Lys Phe Leu Ile  
 180 185 190

Ser Gly Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Val Ser  
 195 200 205

Lys Ser Gly Thr Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Thr Gly  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Thr Thr Leu Asn Ala  
 225 230 235 240

Trp Val Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1546

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1546

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gly



1	5	10	15
Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Asp Ser Ile Arg Gly Gly	20	25	30
His Trp Trp Asn Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp	35	40	45
Ile Gly Glu Val Tyr His Ser Gly Ser Thr Asn Ser Asn Pro Ser Leu	50	55	60
Lys Ser Arg Val Thr Leu Ser Ala Asp Lys Ser Lys Asn Leu Phe Ser	65	70	75
Leu Ser Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys	85	90	95
Ala Arg Gly Asp Tyr Asp Val Leu Thr Gly Tyr Leu Arg Lys Leu Asp	100	105	110
Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly	115	120	125
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Pro Val Leu	130	135	140
Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile	145	150	155
Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Arg Thr Val Asn Trp	165	170	175
Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Val Tyr Ser Thr	180	185	190
Asn Leu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser	195	200	205
Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu	210	215	220
Ala Asp Tyr Tyr Cys Ser Ala Trp Asp Asp Ser Leu Asn Gly Pro Val	225	230	235
			240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
245 250

<210> 1547

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1547

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Leu Ser Tyr Val Leu Thr Gln Pro Pro Ser Ala  
130 135 140

Ser Val Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Gly Ser  
145 150 155 160

Thr Asn Ile Gly Ser Thr Tyr Val Asn Trp Tyr Gln His Leu Pro Gly  
165 170 175

Thr Ala Pro Lys Leu Leu Met Tyr Asn Asn Asn Glu Arg Pro Ser Gly  
180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu

195                      200                      205  
 Ala Ile Thr Gly Val Arg Ser Gly Asp Glu Ala Asp Tyr Tyr Cys Ala  
 210                      215                      220  
 Ala Trp Asp Asp Ser Leu Asn Gly Pro Val Phe Gly Gly Gly Thr Lys  
 225                      230                      235                      240  
 Leu Thr Val Leu Gly  
 245  
 <210> 1548  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1548  
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu  
 1                      5                      10                      15  
 Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Tyr Ser Ile Ser Ser Gly  
 20                      25                      30  
 Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp  
 35                      40                      45  
 Ile Gly Ser Ile Tyr His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu  
 50                      55                      60  
 Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser  
 65                      70                      75                      80  
 Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys  
 85                      90                      95  
 Ala Arg Val His Tyr Asp Ile Leu Thr Gly Tyr Leu Trp Ala Phe Asp  
 100                      105                      110  
 Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115                      120                      125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
 130                      135                      140  
 Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
 145                      150                      155                      160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn  
 180 185 190

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Thr Gln Ala Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe  
 225 230 235 240

Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1549

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1549

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Ser Val Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Ile Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln His Phe Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Lys  
 180 185 190

Asn Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Thr Ser Ala Thr Leu Val Ile Thr Gly Leu Gln Thr Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser His Ser Ala  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1550

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1550

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Ala Ser  
130 135 140

Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Thr Asn Ser  
145 150 155 160

Asn Ile Gly Ser Asn Tyr Val Tyr Trp Tyr Arg His Leu Pro Gly Thr  
165 170 175

Ala Pro Glu Leu Leu Ile Tyr Asn Asn Asn Arg Arg Pro Ser Gly Val  
180 185 190

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
195 200 205

Ile Arg Gly Leu Arg Ser Asp Asp Glu Ala Asp Tyr Tyr Cys Ala Ala  
210 215 220

Trp Asp Asp Ser Leu Ser Val Tyr Tyr Val Phe Gly Thr Gly Thr Lys  
225 230 235 240

Leu Thr Val Leu Gly  
245

<210> 1551

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1551

Gln Val Gln Leu Val Gln Ser Gly Thr Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ala Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Arg

20	25	30
Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met		
35	40	45
Gly Gly Ile Gly Pro Met Ser Gly Thr Pro Asn Tyr Ala Gln Lys Phe		
50	55	60
Gln Gly Arg Val Thr Met Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr		
65	70	75
Leu Glu Leu Ser Asn Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys		
85	90	95
Ala Thr Gly Arg Tyr Tyr Asp Met Leu Thr Arg Gly Gly Tyr Phe Asp		
100	105	110
Tyr Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly		
115	120	125
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Val		
130	135	140
Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile		
145	150	155
Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Tyr Val Ser Trp		
165	170	175
Tyr Arg Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Ser		
180	185	190
Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser		
195	200	205
Gly Ser Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu		
210	215	220
Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Gly Leu Ser Ala Val Val		
225	230	235
Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly		
245	250	

&lt;210&gt; 1552

&lt;211&gt; 259

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1552

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Ala Glu Leu Phe Ala Ser Ser  
 20 25 30

Asp Ile Asn Trp Val Arg Arg Ala Thr Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Asn Pro Ser Ser Gly Asn Ala Gly Tyr Ala Glu Lys Phe  
 50 55 60

Glu Gly Arg Val Ser Met Thr Thr Asn Ile Pro Lys Lys Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Thr Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Met Gly Ser  
 100 105 110

Ala Phe Asp Gln Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140

Ala Val Leu Thr Gln Pro Ser Ser Leu Ser Ala Ser Pro Gly Ala Ser  
 145 150 155 160

Ala Ser Leu Thr Cys Thr Leu Arg Ser Asp Ile Asn Leu Glu Thr Ser  
 165 170 175

Arg Ile Tyr Trp Phe Gln Gln Lys Pro Gly Ser Pro Pro Arg Tyr Leu  
 180 185 190

Leu Arg Tyr Gln Ser Asp Ser Asp Asn Asn Leu Asp Ser Gly Val Pro  
 195 200 205

Ser Arg Phe Ser Gly Ser Lys Asp Ala Ser Ala Asn Ala Gly Ile Leu



210

215

220

Leu Ile Ser Gly Val Gln Ser Glu Asp Glu Ala Asp Tyr His Cys Met  
 225 230 235 240

Ile Trp His Ser Gly Gly Ser Val Phe Gly Gly Gly Thr Gln Leu Thr  
 245 250 255

Val Leu Thr

<210> 1553

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1553

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asn Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Leu Trp Asp  
 100 105 110

Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val  
 115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 130 135 140

Ser Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro  
 145 150 155 160

Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly  
 165 170 175

Ser Asn Ile Val His Trp Tyr Gln Gln Phe Pro Gly Ser Ala Pro Lys  
 180 185 190

Leu Leu Ile Asn Ser Asn Tyr Leu Arg Pro Ser Gly Val Pro Asp Arg  
 195 200 205

Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly  
 210 215 220

Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp  
 225 230 235 240

Ser Leu Asn Gly Trp Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
 245 250 255

Gly

<210> 1554

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1554

Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Glu Phe Thr Phe Ser Asn Tyr  
 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Val Ile Ser Tyr Asp Gly Thr Tyr Lys Ser Tyr Ala Asp Ser Met  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Asn Tyr Asp Ser Leu Thr Gly Tyr Tyr Asn Tyr Phe Asp  
 100 105 110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
 130 135 140

Thr Gln Pro Ser Ser Asp Ser Gly Thr Pro Gly Gln Arg Val Thr Ile  
 145 150 155 160

Ser Trp Ser Gly Ser Gly Ser Asn Ile Gly Ser Asn Ala Val Ser Trp  
 165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Ser Lys Leu Leu Ile Tyr Ser Asn  
 180 185 190

Asn Leu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Ala Thr Ser Ala Ala Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Thr Leu Asn Ala Glu Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1555

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1555

Gln Val Gln Leu Val Pro Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Thr His Tyr Asp Ile Leu Thr Gly Tyr Tyr Ser His Pro Leu  
 100 105 110

Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser  
 130 135 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val  
 145 150 155 160

Thr Ile Thr Cys Gln Gly Asp Ser Leu Arg Thr Tyr Pro Thr Thr Trp  
 165 170 175

Tyr Gln Gln Arg Pro Arg Gln Ala Pro Val Ala Val Ile Ser Gly Lys  
 180 185 190

Asn Tyr Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Thr Ser  
 195 200 205

Gly Asp Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Met Ser Arg Asp Ser Ser Gly Thr Phe Val Leu  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Ser  
 245 250

<210> 1556

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1556

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

1	5	10	15
Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala	20	25	30
Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly	35	40	45
Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln	50	55	60
Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met	65	70	75
Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala	85	90	95
Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp	100	105	110
Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly	115	120	125
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Val	130	135	140
Thr Gln Pro Pro Ala Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile	145	150	155
Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Tyr Tyr Val Ser Trp	165	170	175
Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Asp Asn	180	185	190
Asp Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Val Ser Lys Ser	195	200	205
Gly Thr Ser Ser Thr Leu Ala Ile Thr Gly Leu Gln Thr Gly Asp Glu	210	215	220
Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser Ala Gly Val	225	230	235
			240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
                   245                  250

<210> 1557

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1557

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Arg Pro Gly Ala  
   1                  5                  10                  15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ile Ser Tyr  
                   20                  25                  30

Gly Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                   35                  40                  45

Gly Arg Ile Ser Ile Tyr Glu Asp Lys Val Lys Tyr Ala Glu Lys Phe  
                   50                  55                  60

Gln Gly Arg Leu Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
   65                  70                  75                  80

Met Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
                   85                  90                  95

Ala Arg Val Pro Tyr Asp Ile Leu Thr Gly Tyr Trp Gly Ala Phe Asp  
                   100                  105                  110

Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
                   115                  120                  125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
   130                  135                  140

Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile  
  145                  150                  155                  160

Ser Cys Thr Gly Ser Ser Ser Asn Thr Gly Ala Gly Tyr Asp Val His  
                   165                  170                  175

Trp Tyr Lys Gln Leu Pro Arg Thr Ala Pro Gln Leu Leu Ile Tyr Arg  
                   180                  185                  190

Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys

195                      200                      205  
 Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
     210                      215                      220  
 Glu Ala Glu Tyr Tyr Cys Gln Ser Tyr Asp Thr Ser Leu Ser Gly Ser  
     225                      230                      235                      240  
 Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
                             245                      250  
 <210> 1558  
 <211> 256  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1558  
 Gln Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
     1                      5                      10                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr  
                             20                      25                      30  
 Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
                             35                      40                      45  
 Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
                             50                      55                      60  
 Glu Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr  
     65                      70                      75                      80  
 Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys  
                             85                      90                      95  
 Ala Arg Gly Ser Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser  
                             100                      105                      110  
 Pro Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly  
                             115                      120                      125  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
     130                      135                      140  
 Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser  
     145                      150                      155                      160

Val Thr Ile Ser Cys Thr Gly Thr Ser Asn Asp Val Ser Ala Tyr Lys  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln Tyr Pro Gly Arg Ala Pro Lys Leu Ile  
180 185 190

Leu Tyr Glu Val Thr Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln  
210 215 220

Ala Asp Asp Glu Ala Thr Tyr Phe Cys Ser Ser Phe Ala Gly Ser Asn  
225 230 235 240

Asn Phe Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255

<210> 1559

<211> 256

<212> PRT

<213> Homo sapiens

<400> 1559

Gln Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Asn Phe Met Asn Tyr  
20 25 30

Asp Ile Asn Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
35 40 45

Gly Trp Met Asn Pro Lys Ser Gly Lys Thr Asp Ser Ala Glu Lys Phe  
50 55 60

Glu Gly Arg Val Thr Met Thr Thr Asp Thr Ser Arg Asp Thr Val Tyr  
65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Arg Gly Ser Gly Tyr Asp Leu Leu Thr Gly Tyr Phe Thr Gly Ser  
100 105 110



Pro Leu Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln Ser  
 145 150 155 160

Val Ala Ile Ser Cys Thr Gly Thr Ser Asn Asp Val Ser Ala Tyr Lys  
 165 170 175

Tyr Val Ser Trp Tyr Gln Gln Tyr Pro Gly Arg Ala Pro Lys Leu Ile  
 180 185 190

Leu Tyr Glu Val Thr Asn Arg Pro Ser Gly Val Ile Asp Arg Phe Ser  
 195 200 205

Gly Cys Lys Ser Ala Asn Thr Ala Ser Leu Thr Val Ser Gly Leu Gln  
 210 215 220

Pro Asp Asp Glu Asp Thr Tyr Phe Cys Ser Ser Phe Ala Gly Ser Ser  
 225 230 235 240

Ser Phe Ala Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255

<210> 1560

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1560

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Val Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Leu Phe Phe Asp  
100 105 110

Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
130 135 140

Gln Pro Pro Ser Val Ser Gly Pro Pro Gly Gln Ser Ile Thr Ile Ser  
145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1561

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1561

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr

	20								25											30
Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met																				
	35								40										45	
Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu																				
	50							55						60						
Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr																				
	65					70						75								80
Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys																				
					85					90									95	
Ala Arg Val Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Leu Phe Phe Asp																				
				100					105									110		
Tyr Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly																				
			115					120							125					
Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr																				
	130							135						140						
Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser																				
	145					150					155									160
Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp																				
				165						170									175	
His Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly																				
			180						185									190		
Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser																				
		195						200									205			
Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu																				
	210						215							220						
Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe																				
	225					230						235								240
Gly Gly Gly Thr Lys Leu Thr Val Leu Gly																				
				245							250									

&lt;210&gt; 1562

&lt;211&gt; 251

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1562

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe  
 100 105 110

Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
 195 200 205

Pro Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp

210                      215                      220  
 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
 225                      230                      235                      240  
  
 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                     245                      250  
  
 <210> 1563  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1563  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
   1                      5                      10                      15  
  
 Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn Lys His  
                     20                      25                      30  
  
 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met  
                     35                      40                      45  
  
 Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
                     50                      55                      60  
  
 Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr  
   65                      70                      75                      80  
  
 Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys  
                     85                      90                      95  
  
 Ala Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu  
                     100                      105                      110  
  
 Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
                     115                      120                      125  
  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Pro Val  
   130                      135                      140  
  
 Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Thr  
   145                      150                      155                      160  
  
 Leu Thr Cys Gly Gly Thr Asn Phe Gly Arg Gln Ser Val His Trp Tyr  
                     165                      170                      175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Ala Ile Tyr His Asp Asp  
 180 185 190

Val Arg Pro Ser Gly Ile Pro Glu Arg Leu Ser Gly Ser Lys Ser Gly  
 195 200 205

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala  
 210 215 220

Ala Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp Val Val Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1564

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1564

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn Arg His  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu  
 100 105 110

Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Pro Val  
130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Thr  
145 150 155 160

Leu Thr Cys Gly Gly Thr Asn Phe Gly Arg Gln Ser Val His Trp Tyr  
165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Ala Ile Tyr His Asp Asp  
180 185 190

Val Arg Pro Ser Gly Ile Pro Glu Arg Leu Ser Gly Ser Lys Ser Gly  
195 200 205

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala  
210 215 220

Ala Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp Val Val Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1565

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1565

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn Lys His  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr  
65 70 75 80

Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys  
                     85                    90                    95

Ala Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu  
                     100                    105                    110

Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
                     115                    120                    125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val  
                     130                    135                    140

Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr  
                     145                    150                    155                    160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser  
                     165                    170                    175

Trp Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu  
                     180                    185                    190

Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys  
                     195                    200                    205

Ser Gly Ala Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Thr Gly Asp  
                     210                    215                    220

Glu Ala Asp Tyr Tyr Cys Gly Thr Trp His Ser Ser Gln Val Val Phe  
                     225                    230                    235                    240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                     245                    250

<210> 1566

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1566

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
                     1                    5                    10                    15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn Arg His  
                     20                    25                    30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met



35                                      40                                      45  
 Gly Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
     50                                      55                                      60  
 Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr  
     65                                      70                                      75                                      80  
 Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys  
                                     85                                      90                                      95  
 Ala Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu  
                                     100                                      105                                      110  
 Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
                                     115                                      120                                      125  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val  
                                     130                                      135                                      140  
 Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr  
     145                                      150                                      155                                      160  
 Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser  
                                     165                                      170                                      175  
 Trp Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu  
                                     180                                      185                                      190  
 Asn Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys  
                                     195                                      200                                      205  
 Ser Gly Ala Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Thr Gly Asp  
                                     210                                      215                                      220  
 Glu Ala Asp Tyr Tyr Cys Gly Thr Trp His Ser Ser Gln Val Val Phe  
     225                                      230                                      235                                      240  
 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                     245                                      250

&lt;210&gt; 1567

&lt;211&gt; 259

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1567

Gln Met Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Ala Gly Asn Ser Asn Thr Lys Tyr Ser Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ser Asp Thr Ser Ala Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Arg Gly Ala Pro Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr  
 100 105 110

Ala Pro Ala Gln Gly Val Ala Phe Asp Ile Trp Gly Lys Gly Thr Leu  
 115 120 125

Ala Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 130 135 140

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala  
 145 150 155 160

Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn  
 165 170 175

Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala  
 180 185 190

Pro Lys Leu Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro  
 195 200 205

Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile  
 210 215 220

Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp

225                      230                      235                      240

Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr  
245 250 255

Val Leu Gly

<210> 1568

<211> 244

&lt;212&gt; PRT

<213> Homo sapiens

<400> 1568

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Lys Gly Thr Leu  
100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser  
130 135 140

Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Arg Ser  
145                      150                      155                      160

Asn Ile Gly Ala Gly Tyr Asp Val His Trp Tyr Gln Gln Leu Pro Gly  
165 170 175

Thr Ala Pro Lys Leu Leu Ile Tyr Gly Asn Ser Asn Arg Pro Ser Gly  
 180 185 190

Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu  
 195 200 205

Ala Ile Thr Gly Leu Gln Ala Asp Asp Glu Ala Asp Tyr Tyr Cys Gln  
 210 215 220

Ser Tyr Asp Thr Ser Leu Arg Gly Leu Phe Gly Thr Gly Thr Lys Val  
 225 230 235 240

Thr Val Leu Gly

<210> 1569

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1569

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Gln Gly Thr Met  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Ala Ser  
 130 135 140

Gly Thr Pro Gly Gln Arg Ala Thr Ile Ser Cys Ser Gly Ser Ser Ser  
 145 150 155 160

Asp Ile Gly Ile Asn Ala Val Asn Trp Tyr Lys Gln Leu Pro Arg Thr  
 165 170 175

Ala Pro Lys Leu Leu Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val  
 180 185 190

Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala  
 195 200 205

Ile Ile Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr  
 210 215 220

Trp Asp Asp Ser Leu Thr Ala Tyr Val Phe Gly Thr Gly Thr Lys Val  
 225 230 235 240

Thr Val Leu Gly

<210> 1570

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1570

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
                             85                            90                            95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
                             100                            105                            110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
                             115                            120                            125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Pro Val Leu  
                             130                            135                            140

Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Thr Leu  
                             145                            150                            155                            160

Thr Cys Gly Gly Thr Asn Phe Gly Arg Gln Ser Val His Trp Tyr Gln  
                             165                            170                            175

Gln Lys Pro Gly Gln Ala Pro Val Leu Ala Ile Tyr His Asp Asp Val  
                             180                            185                            190

Arg Pro Ser Gly Ile Pro Glu Arg Leu Ser Gly Ser Lys Ser Gly Asn  
                             195                            200                            205

Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala Ala  
                             210                            215                            220

Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp Val Val Val Phe Gly  
                             225                            230                            235                            240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
                             245

<210> 1571

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1571

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
                             1                            5                            10                            15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
                             20                            25                            30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly

35                                      40                                      45  
 Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
     50                                      55                                      60  
 Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
     65                                      70                                      75                                      80  
 Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
                                     85                                      90                                      95  
 Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
                                     100                                      105                                      110  
 Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
                                     115                                      120                                      125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
                                     130                                      135                                      140  
 Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile  
     145                                      150                                      155                                      160  
 Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
                                     165                                      170                                      175  
 Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu Asn  
                                     180                                      185                                      190  
 Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
                                     195                                      200                                      205  
 Gly Ala Ser Ala Ala Leu Asp Ile Thr Gly Leu Gln Thr Gly Asp Glu  
                                     210                                      215                                      220  
 Ala Asp Tyr Tyr Cys Gly Thr Trp His Ser Ser Gln Val Val Phe Gly  
     225                                      230                                      235                                      240  
 Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                     245

<210> 1572  
 <211> 249  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1572

Gln Val His Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu Asn  
 180 185 190

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Ala Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Thr Gly Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp His Ser Ser Gln Val Val phe Gly



225

230

235

240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
245

&lt;210&gt; 1573

&lt;211&gt; 249

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1573

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
100 105 110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
130 135 140

Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile  
145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln Ile Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu Asn  
180 185 190

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Ala Ser Ala Thr Leu Asp Ile Thr Gly Leu Gln Thr Gly Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Gly Thr Trp His Ser Ser Gln Val Val Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1574

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1574

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Val Asp Gly  
 35 40 45

Arg Asp Pro Pro Tyr Val Trp Tyr Ser Lys Leu Cys Thr Glu Val Pro  
 50 55 60

Arg Ala Glu Ser Arg Ser Pro Arg Thr Thr Leu Thr Asn Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu  
 100 105 110

Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Pro Val  
 130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr Ala Thr  
 145 150 155 160

Leu Thr Cys Gly Gly Thr Asn Phe Gly Arg Gln Ser Val His Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Ala Ile Tyr His Asp Asp  
 180 185 190

Val Arg Pro Ser Gly Ile Pro Glu Arg Leu Ser Gly Ser Lys Ser Gly  
 195 200 205

Asn Thr Ala Thr Leu Thr Ile Ser Arg Val Glu Ala Gly Asp Glu Ala  
 210 215 220

Ala Tyr Tyr Cys Gln Val Trp Asp Ser Gly Ser Asp Val Val Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1575

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1575

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu  
 130 135 140

Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Ile Ile  
 145 150 155 160

Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Pro Asp Tyr Asp Val His  
 165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly  
 180 185 190

Asn Asn Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala His Tyr Tyr Cys Gln Ser Tyr Gly Ser Ser Leu Ser Gly Val  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1576

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1576

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Glu Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Thr Tyr Asn Gly Asn Thr Arg Tyr Pro Gln Lys Leu

50                      55                      60  
 Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65                      70                      75                      80  
 Met Asp Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85                      90                      95  
 Ala Arg Asp Gly Arg Leu Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Ala  
 100                      105                      110  
 Arg Asp Tyr Tyr Gly Met Asp Asp Trp Gly Arg Gly Thr Met Val Thr  
 115                      120                      125  
 Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 130                      135                      140  
 Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro  
 145                      150                      155                      160  
 Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly  
 165                      170                      175  
 Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro  
 180                      185                      190  
 Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn  
 195                      200                      205  
 Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser  
 210                      215                      220  
 Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr  
 225                      230                      235                      240  
 Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 245                      250                      255

Gly

<210> 1577  
 <211> 241  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 1577

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Asp Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Met Ser Ser Leu Lys Phe Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Ser Ser Glu Gly Thr Ile Phe Gly Val Asp Trp Gly Arg Gly Thr  
 100 105 110

Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Phe Leu  
 130 135 140

Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln  
 145 150 155 160

Gly Ile Asn Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Arg Ala  
 165 170 175

Pro Lys Leu Leu Met Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val Pro  
 180 185 190

Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile  
 195 200 205

Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Leu Gln Asp  
 210 215 220

Ser Asp Tyr Pro Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys

225

230

235

240

Arg

&lt;210&gt; 1578

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1578

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly  
 20 25 30

Tyr Tyr Trp Gly Trp Val Arg Gln Pro Pro Gly Gln Gly Leu Glu Trp  
 35 40 45

Ile Gly Ser Ile Tyr His Ser Gly Ser Thr Tyr His Asn Pro Ser Leu  
 50 55 60

Lys Ser Arg Val Thr Ile Ser Met Asp Thr Ser Lys Asn Gln Phe Ser  
 65 70 75 80

Leu Asn Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Lys Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Arg Asp  
 100 105 110

Asn Trp Phe Asp Pro Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1579

<211> 257

<212> PRT

<213> Homo sapiens

<400> 1579

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Thr Pro Ser Ser Val Tyr Asp Leu Leu Thr Gly Tyr Tyr His  
 100 105 110

Tyr Phe Tyr Ser Tyr Met Asp Val Trp Gly Arg Gly Thr Met Val Thr  
 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 130 135 140



Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro  
 145 150 155 160

Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly  
 165 170 175

Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Glu Ala Pro  
 180 185 190

Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn  
 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser  
 210 215 220

Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr  
 225 230 235 240

Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
 245 250 255

Gly

<210> 1580  
 <211> 242  
 <212> PRT  
 <213> Homo sapiens

<400> 1580  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Phe  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Val Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Ala Ile Ile Pro Lys Phe Asp Ile Val Thr Tyr Ala Glu Glu Phe  
 50 55 60

Lys Gly Arg Val Thr Ile Ser Ala Asp Lys Leu Thr Asn Thr Ala Tyr  
 65 70 75 80

Met Glu Val Lys Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
                     85                    90                    95

Thr Arg Glu Lys Ser Ala Ala Gly Tyr Phe Asp Tyr Trp Gly Lys Gly  
                     100                    105                    110

Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
                     115                    120                    125

Ser Gly Gly Gly Gly Ser Asp Ile Val Met Thr Gln Ser Pro Ser Thr  
                     130                    135                    140

Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser  
                     145                    150                    155                    160

Gln Gly Ile Ser Ser Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Arg  
                     165                    170                    175

Ala Pro Lys Val Leu Ile Tyr Lys Ala Ser Thr Leu Glu Ser Gly Val  
                     180                    185                    190

Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
                     195                    200                    205

Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln  
                     210                    215                    220

Ser Tyr Ser Thr Pro Trp Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile  
                     225                    230                    235                    240

Lys Arg

<210> 1581

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1581

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
           1                    5                    10                    15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
                     20                    25                    30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met

35

40

45

Gly Arg Ile Ile Pro Ile Val Asn Met Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Gly Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Asn Tyr Asp Ser Leu Thr Gly Tyr Tyr Gly Ala Phe Asp  
 100 105 110

Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1582

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1582

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Arg Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Leu Pro Val Leu Thr Gln Pro Pro Ser Ala Ser  
 130 135 140

Ala Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser  
 145 150 155 160

Asn Ile Gly Ser Asn Tyr Val Tyr Trp Tyr Gln Gln Leu Pro Gly Thr  
 165 170 175

Ala Pro Lys Val Leu Ile Tyr Arg Asn Asn Gln Arg Pro Ser Gly Val  
 180 185 190

Pro Asp Arg Phe Ser Gly Ser Arg Ser Gly Thr Ser Ala Ser Leu Ala  
 195 200 205

Ile Ser Gly Leu Arg Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Thr  
 210 215 220

Trp Asp Asp Ser Leu Ser Gly Pro Val Phe Gly Gly Gly Thr Lys Val

225

230

235

240

Thr Val Leu Gly

&lt;210&gt; 1583

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1583

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ile Cys Trp Arg Gln Ala Pro Ala Arg Gln Leu Glu Gly Met Ile  
 35 40 45

Gly Ile Leu Ile Met Tyr Gly Thr Ala Asp Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Asn Leu Thr Asn Thr Ala Tyr Met  
 65 70 75 80

Asp Leu Ser Ser Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Lys Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Ala Ser Gly Ser Pro Gly Gln Arg Val Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Ile Trp  
 165 170 175

Trp Gln Gln Leu Pro Ala Ala Ala Ala Asn Leu Leu Met Tyr Ser Asn  
 180 185 190

Asn Arg Arg Pro Ser Gly Val Leu Glu Arg Phe Ser Gly Cys Lys Tyr  
 195 200 205

Gly Ala Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Gln Glu Asp Glu  
 210 215 220

Asp Val Ile Ile Thr Val Gln His Gly Met Pro Ala Leu Lys Gly Trp  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1584

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1584

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Ser Phe Ser Arg Glu  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Ile Ile Pro Val Leu Gly Val Ala Asp Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Lys Ile Ser Val Asp Arg Leu Thr Ser Val Ala Tyr  
 65 70 75 80

Met Glu Leu Thr Ser Leu Arg Phe Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Gly Met Asn Asp Phe Ile Asn Ser His His Tyr Tyr Thr  
 100 105 110

Met Asp Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala  
 130 135 140

Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp  
 165 170 175

Val His Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile  
 180 185 190

Tyr Gly Asn Ser Asn Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Ser Ser Leu Ser  
 225 230 235 240

Gly Ser Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1585

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1585

Glu Val Gln Leu Val Gln Ser Gly Ala Asp Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser His Tyr Pro Phe Thr Thr Tyr  
 20 25 30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Asn Tyr Asn Gly His Thr Arg Tyr Ala Pro Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Thr Asp Thr Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Lys Ser Leu Thr Ser Asp Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Asn Glu Tyr Gly His Thr Glu Arg Pro Ala Asp Tyr  
 100 105 110

Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ala Val Leu Thr  
 130 135 140

Gln Pro Ser Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Ser Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His Trp  
 165 170 175

Tyr Gln Gln Leu Pro Gly Thr Thr Pro Lys Leu Leu Ile Ser Arg Asn  
 180 185 190

Asn Asn Arg Pro Pro Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Thr Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Gln Ser Tyr Asp Thr Thr Leu Arg Gly Trp Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Val Thr Val Leu Gly  
 245 250

<210> 1586  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens

<400> 1586  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu



[illegible]

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<210> 1587
<211> 251
<212> PRT
<213> Homo sapiens
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<400> 1587  
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
                   20                  25                  30  
  
 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
           35                  40                  45  
  
 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
       50                  55                  60  
  
 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
       65                  70                  75                  80  
  
 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
                   85                  90                  95  
  
 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
           100                  105                  110  
  
 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
       115                  120                  125  
  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
       130                  135                  140  
  
 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
       145                  150                  155                  160  
  
 Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
           165                  170                  175  
  
 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
           180                  185                  190  
  
 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
       195                  200                  205  
  
 Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
       210                  215                  220  
  
 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
       225                  230                  235                  240  
  
 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Asp

245

250

&lt;210&gt; 1588

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1588

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Asp  
 245

<210> 1589  
 <211> 246  
 <212> PRT  
 <213> Homo sapiens

<400> 1589  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Ser Tyr  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Tyr Ile Val Pro Val Phe Gly Thr Ala Thr Tyr Ala Gln Asn Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Phe  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ser Leu Ala Thr Arg Pro Leu Gly Met Asp Val Trp Gly Arg  
 100 105 110

Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser  
 130 135 140

Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr  
 145 150 155 160

Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His  
 165 170 175

Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro  
 180 185 190

Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala  
 195 200 205

Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr  
 225 230 235 240

Lys Leu Thr Val Leu Gly  
 245

<210> 1590

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1590

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Glu  
 130 135 140

Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr  
 145 150 155 160

Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Ser Asn Ala Val Asn  
 165 170 175

Trp Tyr Arg Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Val Tyr Ser  
 180 185 190

Asn Asn Gln Val Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Gly Tyr  
 225 230 235 240

Val Phe Gly Thr Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1591  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens

<400> 1591  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met

65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
100 105 110

Met Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Val  
130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Val  
145 150 155 160

Ser Cys Ser Gly Gly Arg Ser Asn Ile Gly Ser Asn Thr Val Ser Trp  
165 170 175

Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Ser Asn  
180 185 190

Asp Glu Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Asn Ser  
195 200 205

Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Asn Gly Val Ala  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1592  
<211> 251  
<212> PRT  
<213> Homo sapiens

<400> 1592

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Thr Ser Gly Tyr Thr Phe Thr Gly Tyr  
20 25 30

Asn Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Val Ser Pro Ser Asn Gly Asp Thr Ser Tyr Ala Gln Thr Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp His Phe Asp Thr Leu Thr Gly Tyr Phe Arg Arg Leu Asp  
 100 105 110

Ser Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Leu Ser Ser Glu  
 130 135 140

Leu Thr Gln Asp Pro Glu Val Ser Val Ala Leu Gly Gln Thr Val Thr  
 145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Ile Thr His Tyr Ala Ser Trp Phe  
 165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Phe Tyr Ser Lys Asp  
 180 185 190

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Tyr Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Arg Gly Lys Asn His Val Ala  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1593



&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1593

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Leu Phe Phe Asp  
 100 105 110

Tyr Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1594

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1594

Gln Val Asn Leu Arg Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Asn Ile Lys Gln Asp Gly Ser Glu Lys Tyr Tyr Val Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Ala Gln Ser Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Ser  
 100 105 110

Tyr Ala Phe Asp Ile Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser  
 130 135 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val  
 145 150 155 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp  
 165 170 175

Phe Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys  
 180 185 190

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1595  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens

<400> 1595  
 Gln Val Gln Leu Val Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Tyr Tyr Asp Ile Leu Thr Gly Tyr Asn Leu Phe Phe Asp  
 100 105 110

Tyr Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1596  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<400> 1596  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Gly Lys Tyr  
 20 25 30

Ala Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Ile Ile Asn Pro Ser Gly Gly Ser Thr Ser Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys

85                                      90                                      95  
 Ala Arg Gly Pro Ser Thr Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr  
    100                                      105                                      110  
 Thr Pro Tyr Tyr Tyr Tyr Tyr Tyr Met Asp Val Trp Gly Gln Gly Thr  
    115                                      120                                      125  
 Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
    130                                      135                                      140  
 Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val  
    145                                      150                                      155                                      160  
 Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg  
    165                                      170                                      175  
 Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val  
    180                                      185                                      190  
 Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg  
    195                                      200                                      205  
 Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly  
    210                                      215                                      220  
 Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser  
    225                                      230                                      235                                      240  
 Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu  
    245                                      250                                      255

Gly

<210> 1597  
 <211> 255  
 <212> PRT  
 <213> Homo sapiens

<400> 1597  
 Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Ser Ser Gly  
    1                                      5                                      10                                      15

Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Ala Ser Ile Leu Glu Gly  
    20                                      25                                      30

Asp Tyr Phe Trp Thr Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu  
           35                          40                          45

Trp Ile Gly Glu Ile Asn His Arg Gly Asp Ile Asn Tyr Asn Pro Ser  
           50                          55                          60

Leu Lys Ser Arg Val Thr Ile Leu Val Asp Thr Ser Lys Asn Gln Leu  
           65                          70                          75                          80

Ser Leu Lys Leu Asn Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr  
                           85                          90                          95

Cys Ala Arg His Val Arg Asp Tyr Asp Ile Leu Thr Gly Tyr Tyr Arg  
                           100                          105                          110

Gly His Tyr Phe Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser  
           115                          120                          125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
           130                          135                          140

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
           145                          150                          155                          160

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
                           165                          170                          175

Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu  
           180                          185                          190

Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser  
           195                          200                          205

Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln  
           210                          215                          220

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu  
           225                          230                          235                          240

Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                           245                          250                          255

&lt;210&gt; 1598

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1598

Gly Val Gln Leu Val Gln Ser Gly Ala Val Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Asn Asn  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Gly Ile Ile Pro Val Phe Glu Thr Ile Asn Thr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Val Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Glu Arg Gly Val Val Thr Ala Tyr Gly Gly Asp Ser Phe Asp  
 100 105 110

Leu Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser  
 145 150 155 160

Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr  
 165 170 175

Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp  
 180 185 190

Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205

Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Ser  
 245 250

<210> 1599

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1599

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Leu Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Tyr Tyr Ala Gln Lys Phe  
 50 55 60

Arg Gly Arg Ile Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Thr Ser Asp Asp Ser Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Arg Gly Pro Gly Leu Leu Ser Ser Phe Phe Glu Ser Trp  
 100 105 110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Ala Leu Thr Gln Pro  
 130 135 140

Ala Ser Val Ser Gly Ser Arg Gly Gln Ser Ile Thr Ile Ser Cys Thr  
 145 150 155 160

Gly Thr Thr Gly Asp Val Gly Gly Tyr Asp Tyr Val Ser Trp Tyr Gln  
 165 170 175



Gln His Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Gly Asn Ser Asn  
 180 185 190

Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Ala Ser Lys Ser Gly Asn  
 195 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Phe Cys Ser Thr Tyr Ala Pro Pro Gly Ile Ile Met Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1600

<211> 256

<212> PRT

<213> Homo sapiens

<400> 1600

Gln Val Arg Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Glu Tyr Tyr Asp Ile Leu Thr Gly Tyr Gln Ala Pro Tyr  
 100 105 110

Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val  
 115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 130 135 140

Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly  
 145 150 155 160

Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser  
 165 170 175

Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu  
 180 185 190

Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe  
 195 200 205

Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu  
 210 215 220

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser  
 225 230 235 240

Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255

<210> 1601

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1601

Gln Val Gln Leu Gln Gln Ser Gly Ala Val Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Asn Asn  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Gly Ile Ile Pro Val Phe Glu Thr Ile Asn Thr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Ala Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Val Asp Asp Thr Ala Val Tyr Tyr Cys

85 90 95  
 Ala Thr Glu Arg Gly Val Val Thr Ala Tyr Gly Gly Asp Ser Phe Asp  
 100 105 110  
 Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140  
 Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160  
 Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175  
 Tyr Gln Gln His Pro Gly Glu Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190  
 Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205  
 Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220  
 Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240  
 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250  
 <210> 1602  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1602  
 Glu Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu  
 1 5 10 15  
 Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Gly Ser Ile Ser Glu Asn  
 20 25 30  
 Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile  
 35 40 45

Gly Glu Ile Thr His Ser Gly Asn Thr His Tyr Asn Pro Ser Leu Lys  
     50                    55                    60  
 Ser Arg Val Ser Ile Ser Val Asp Ala Ser Lys Asn Gln Phe Ser Leu  
     65                    70                    75                    80  
 Lys Leu Ser Ser Val Ser Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
                     85                    90                    95  
 Arg Asp Val Thr Tyr His Asp Ile Leu Thr Gly Tyr Ala Gly His Glu  
                     100                    105                    110  
 Ala Phe Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
                     115                    120                    125  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
     130                    135                    140  
 Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
     145                    150                    155                    160  
 Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
                     165                    170                    175  
 Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
                     180                    185                    190  
 Tyr Glu Gly Ser Lys Arg Pro Ser Gly Ala Ser Asn Arg Phe Ser Gly  
                     195                    200                    205  
 Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
     210                    215                    220  
 Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
     225                    230                    235                    240  
 Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                     245                    250

&lt;210&gt; 1603

&lt;211&gt; 255

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1603

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Val Lys Pro Ser Gln  
 1 5 10 15

Thr Leu Ser Leu Ser Cys Ala Ile Ser Gly Asp Ser Val Gly Ser Asn  
 20 25 30

Gly Ala Ala Trp Asn Trp Ile Arg Gln Ser Pro Ser Arg Gly Leu Glu  
 35 40 45

Trp Leu Gly Arg Thr Tyr Tyr Arg Ser Gln Trp Tyr Ser Asp Tyr Gly  
 50 55 60

Ala Ser Val Arg Ser Arg Ile Thr Ile Asn Ala Asp Thr Ser Lys Asn  
 65 70 75 80

Gln Phe Ser Leu Gln Leu Asn Ser Val Thr Pro Glu Asp Thr Ala Val  
 85 90 95

Tyr Tyr Cys Ala Arg Glu Ser Gly Arg Tyr Asp Ile Leu Thr Gly Tyr  
 100 105 110

Tyr Ser Gly Gly Gly Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val  
 115 120 125

Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly  
 130 135 140

Gly Gly Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala  
 145 150 155 160

Ser Ile Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Glu Gly Ile  
 165 170 175

Tyr His Trp Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys  
 180 185 190

Leu Leu Ile Tyr Lys Ala Ser Ser Leu Ala Ser Gly Ala Pro Ser Arg  
 195 200 205

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser  
 210 215 220

Leu Gln Pro Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn  
 225 230 235 240

Tyr Pro Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg  
 245 250 255

<210> 1604

<211> 256

<212> PRT

<213> Homo sapiens

<400> 1604

Gln Val Thr Leu Lys Glu Ser Gly Gly Gly Leu Gly Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Ser Tyr  
 20 25 30

Glu Leu Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Leu  
 35 40 45

Ser Tyr Ile Ser Ser Asp Gly Thr Thr Lys Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asp Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Asp Asp Asp Thr Ala Val Tyr Phe Cys  
 85 90 95

Ala Arg Asp Gly Ala Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Thr Thr  
 100 105 110

Thr Val Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val  
 115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 130 135 140

Ser Arg Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly  
 145 150 155 160

Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly  
 165 170 175

Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys  
 180 185 190

Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg  
 195 200 205

Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly  
 210 215 220

Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr  
 225 230 235 240

Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255

<210> 1605

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1605

Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Gln Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Arg Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Thr Tyr Gly Met  
 100 105 110

Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1606  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens

<400> 1606  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Lys Pro Asn Ser Ala Gln Arg Phe  
 50 55 60

Lys Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Gly Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Ala Glu Gly Ser Ser Gly Tyr Leu Val Gly Trp Gly Arg Gly Thr



100 105 110  
 Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 115 120 125  
 Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser  
 130 135 140  
 Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser  
 145 150 155 160  
 Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly  
 165 170 175  
 Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly  
 180 185 190  
 Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu  
 195 200 205  
 Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser  
 210 215 220  
 Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu  
 225 230 235 240  
 Thr Val Leu Gly  
 <210> 1607  
 <211> 256  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1607  
 Gln Val Gln Leu Gln Glu Ser Gly Ser Gly Leu Val Lys Pro Ser Gln  
 1 5 10 15  
 Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Gly Ser Ile Ser Ser Gly  
 20 25 30  
 Gly Tyr Ser Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu  
 35 40 45  
 Trp Ile Gly Tyr Ile Tyr His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser  
 50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Val Asp Arg Ser Lys Asn Gln Phe  
65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr  
85 90 95

Cys Ala Arg Lys Gln Arg Gly Asp Tyr Asp Ile Leu Thr Gly Tyr Gln  
100 105 110

Leu Gly Tyr Ala Phe Asp Ile Trp Gly Arg Gly Thr Pro Val Thr Val  
115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
130 135 140

Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly  
145 150 155 160

Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn  
165 170 175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
180 185 190

Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe  
195 200 205

Ser Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu  
210 215 220

Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser  
225 230 235 240

Leu Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
245 250 255

<210> 1608

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1608

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ile Phe Ser Ser Tyr  
 20 25 30

Thr Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ser Ile Ser Ser Gly Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Met  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Arg Pro Gly Tyr Asp Ile Leu Thr Gly Tyr Pro Ser Ser  
 100 105 110

Ile Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Pro Val Thr Val Ser  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 130 135 140

Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln  
 145 150 155 160

Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr  
 165 170 175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
 180 185 190

Met Ile Tyr Glu Gly Gly Lys Arg Pro Ser Gly Val Ser Asn Arg Phe  
 195 200 205

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
 210 215 220

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg  
 225 230 235 240

Ser Thr Arg Ala Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255

&lt;210&gt; 1609

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1609

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1610  
 <211> 257  
 <212> PRT  
 <213> Homo sapiens

<400> 1610  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Lys Tyr Ala Gln Glu Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Thr Leu Gly Tyr Asp Ile Leu Thr Gly Tyr Pro Pro Pro  
 100 105 110

Tyr Tyr Tyr Tyr Asp Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr  
 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 130 135 140

Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro  
 145 150 155 160

Gly Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly  
 165 170 175

Asn Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys  
 180 185 190

Leu Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg  
 195 200 205

Phe Ser Asp Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly  
 210 215 220

Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp  
 225 230 235 240

Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu  
 245 250 255

Gly

<210> 1611

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1611

Ala Val Gln Gly Ala Glu Val Lys Lys Pro Gly Ala Ser Val Lys Val  
 1 5 10 15

Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr Gly Ile Ser Trp  
 20 25 30

Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Trp Ile Ser  
 35 40 45

Ala Tyr Asn Gly Asn Thr Lys Tyr Ala Gln Glu Leu Gln Gly Arg Val  
 50 55 60

Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr Met Glu Leu Arg  
 65 70 75 80

Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Thr  
 85 90 95

Leu Gly Tyr Asp Ile Leu Thr Gly Tyr Pro Pro Pro Tyr Tyr Tyr Tyr

100 105 110  
 Asp Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
 130 135 140  
 Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val  
 145 150 155 160  
 Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val  
 165 170 175  
 Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190  
 Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Asp Ser  
 195 200 205  
 Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu  
 210 215 220  
 Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu  
 225 230 235 240  
 Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
 245 250  
 <210> 1612  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1612  
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gln  
 1 5 10 15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30  
 Asp Met His Trp Val Arg Gln Ala Thr Gly Glu Gly Leu Glu Trp Val  
 35 40 45  
 Ser Ala Ile Gly Thr Ala Gly Asp Thr Tyr Tyr Pro Gly Ser Val Lys  
 50 55 60

Gly Arg Phe Thr Ile Ser Arg Glu Asn Ala Lys Asn Ser Leu Tyr Leu  
 65 70 75 80

Gln Met Asn Ser Leu Arg Ala Gly Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Gly Arg His Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Asn Glu Ala  
 100 105 110

Phe Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1613

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1613

Glu Val Gln Leu Val Glu Thr Gly Gly Gly Leu Val Lys Pro Gly Gly  
 1 5 10 15



Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Asp Tyr  
 20 25 30

Tyr Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ser Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Gly Asn Tyr Tyr Asp Val Leu Thr Gln Ser Tyr Tyr Gly Met Asp  
 100 105 110

Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1614

&lt;211&gt; 243

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1614

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Glu Pro Gly Ala  
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Phe  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Gly Ile Ile Pro Val Phe Gly Thr Val Asn His Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Gly Asp Asn Ser Gly Thr Tyr Gly Tyr Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly  
 130 135 140

Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn  
 145 150 155 160

Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala  
 165 170 175

Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro  
 180 185 190

Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val Ile  
 195 200 205

Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp  
 210 215 220

Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr  
 225 230 235 240

Val Leu Gly

<210> 1615

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1615

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ser Phe Lys Ser His  
 20 25 30

Ser Leu Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Val Leu Pro Val Phe Gly Met Val Asp Ser Ala Gln Arg Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Gly Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Gly Val Thr Ala Gly Arg Ser Val Tyr Phe Asp Ser Trp  
 100 105 110

Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro  
 130 135 140

Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly  
 145 150 155 160

Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly  
                     165                    170                    175

Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly  
                     180                    185                    190

Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu  
                     195                    200                    205

Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn  
                     210                    215                    220

Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys  
                     225                    230                    235                    240

Leu Thr Val Leu Gly  
                     245

<210> 1616

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1616

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Ala Gly Ser  
                     1                    5                    10                    15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ile Phe Arg Ser Tyr  
                     20                    25                    30

Pro Ile Ser Trp Val Arg Gln Ala Pro Gly Leu Gly Leu Glu Trp Ile  
                     35                    40                    45

Gly Gly Ile Ile Pro Ile Val Gly Lys Pro Asn Tyr Ala Gln Lys Phe  
                     50                    55                    60

Gln Asp Arg Val Ala Ile Ser Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
                     65                    70                    75                    80

Met Glu Leu Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
                     85                    90                    95

Ala Arg Ser Pro Asn Gly Asp Tyr Ser Gly Tyr Ala Trp Gly Leu Glu  
                     100                    105                    110

Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly

115                                      120                                      125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
     130                                      135                                      140  
 Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
     145                                      150                                      155                                      160  
 Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
                                     165                                      170                                      175  
 Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
                                     180                                      185                                      190  
 Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
                                     195                                      200                                      205  
 Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
     210                                      215                                      220  
 Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
     225                                      230                                      235                                      240  
 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                     245                                      250  
  
 <210> 1617  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1617  
 Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Glu Pro Gly Ser  
     1                                      5                                      10                                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Lys Tyr  
                                     20                                      25                                      30  
 Ala Val Ser Trp Leu Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                                     35                                      40                                      45  
 Gly Gly Ile Thr Pro Phe Ala Thr Thr Lys Tyr Ala Gln Lys Phe Gln  
     50                                      55                                      60  
 Gly Arg Ala Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Val Tyr Met  
     65                                      70                                      75                                      80

Asp Leu Gly Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala  
                             85                            90                            95

Ser Tyr Phe Asp Gly Ser Gly Tyr Tyr Pro Val Ser Phe Ser Tyr Trp  
                             100                            105                            110

Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
                             115                            120                            125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro  
                             130                            135                            140

Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr  
                             145                            150                            155                            160

Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln  
                             165                            170                            175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys  
                             180                            185                            190

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Glu Ser Gly Asn  
                             195                            200                            205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp  
                             210                            215                            220

Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly  
                             225                            230                            235                            240

Gly Thr Lys Leu Thr Val Leu Gly  
                             245

<210> 1618

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1618

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Ala Gln Pro Gly Gly  
                             1                            5                            10                            15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Ser Asn Tyr  
                             20                            25                            30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile  
 35 40 45

Gly Glu Ile Tyr His Ser Gly Thr Ala Ser Tyr Asn Pro Ser Leu Lys  
 50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu  
 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Val Asn Tyr Asp Ile Leu Thr Gly Leu Gly Tyr Tyr Phe Asp Tyr  
 100 105 110

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln  
 130 135 140

Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys  
 145 150 155 160

Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln  
 165 170 175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val Ser Lys  
 180 185 190

Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn  
 195 200 205

Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly  
 225 230 235 240

Thr Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1619

<211> 253

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1619

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly  
 20 25 30

Gly Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu  
 35 40 45

Trp Ile Gly Tyr Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser  
 50 55 60

Leu Lys Ser Arg Val Thr Ile Ser Ile Asp Thr Ser Lys Asn Gln Phe  
 65 70 75 80

Ser Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr  
 85 90 95

Cys Val Arg Ser Tyr Tyr Asp Ile Leu Thr Gly Arg Pro Tyr Thr Asp  
 100 105 110

Ala Phe Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
 210 215 220



Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1620

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1620

Gly Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Ser Thr His  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Glu Ile Ile Pro Met Ser Ala Thr Thr Arg Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Leu Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val His  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Pro Leu Gly Ile Thr Ala Val Arg Gly Ala Lys Thr Asp Ala  
 100 105 110

Phe Gly Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu  
 130 135 140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile  
 145 150 155 160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln  
 165 170 175

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn  
 180 185 190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn  
 195 200 205

Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1621  
 <211> 256  
 <212> PRT  
 <213> Homo sapiens

<400> 1621  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Ala Thr Tyr  
 20 25 30

Ala Met Gln Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Leu  
 35 40 45

Gly Trp Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ser Asp Thr Ser Ala Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Arg Gly Ala Ser Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr  
 100 105 110

Ala Pro Ala Gln Gly Val Ala Phe Asp Ile Trp Gly Arg Ser Thr Leu  
 115 120 125

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Ser Gly

130                                      135                                      140  
 Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala  
 145                                      150                                      155                                      160  
 Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser  
                                     165                                      170                                      175  
 Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu  
                                     180                                      185                                      190  
 Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe  
                                     195                                      200                                      205  
 Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala  
                                     210                                      215                                      220  
 Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser  
 225                                      230                                      235                                      240  
 Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                     245                                      250                                      255  
  
 <210> 1622  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1622  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
   1                                      5                                      10                                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
                                     20                                      25                                      30  
 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
                                     35                                      40                                      45  
 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
                                     50                                      55                                      60  
 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
                                     65                                      70                                      75                                      80  
 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
                                     85                                      90                                      95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1623

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1623

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Asn Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1624

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1624

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1625  
<211> 254  
<212> PRT  
<213> Homo sapiens

<400> 1625  
Gly Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe Ser Asp Tyr  
20 25 30

Tyr Met Ser Trp Ile Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Tyr Ile Ser Asn Asn Ser Ser Tyr Thr Asn Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Thr Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
65 70 75 80

Leu Gln Met Asn Asn Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Asp Gly Gly Gly Tyr Asp Ile Leu Thr Gly Tyr Gln Tyr Tyr  
100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1626

<211> 255

<212> PRT

<213> Homo sapiens

<400> 1626

Gln Val Gln Leu Gln Gln Trp Gly Ala Glu Leu Leu Lys Pro Ser Glu  
 1 5 10 15

Thr Leu Ser Leu Asn Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr  
 20 25 30

Tyr Trp Ser Trp Val Arg Gln Ser Pro Glu Lys Gly Leu Glu Trp Ile  
 35 40 45

Gly Glu Ile Lys His Gly Gly Gly Thr Asn Tyr Asn Pro Ser Leu Lys  
 50 55 60

Ser Arg Val Ser Ile Ser Leu Asp Thr Ser Lys Asn Gln Phe Ser Leu  
 65 70 75 80

Lys Met Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Trp Ala Thr Tyr Tyr Asp Thr Leu Thr Gly Tyr Arg Leu Lys Asp  
 100 105 110

His Ala Gly Phe Asp Ile Trp Gly Arg Gly Thr Thr Val Thr Val Ser  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 130 135 140

Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Ser Pro Gly Gln



145                      150                      155                      160

Ser Val Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr  
                        165                      170                      175

Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
                        180                      185                      190

Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe  
                        195                      200                      205

Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu  
                        210                      215                      220

Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg  
225                      230                      235                      240

Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                        245                      250                      255

<210> 1627  
<211> 252  
<212> PRT  
<213> Homo sapiens

<400> 1627  
Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
   1                      5                      10                      15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
                        20                      25                      30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
                        35                      40                      45

Ala Val Ile Ser Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val  
                        50                      55                      60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
                        65                      70                      75                      80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                        85                      90                      95

Ala Arg Ser Pro Gly Asp Asp Ile Leu Thr Gly Tyr Tyr Lys Tyr Tyr  
                        100                      105                      110

Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1628  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens

<400> 1628  
 Glu Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Thr Ser Tyr  
 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Asp Ile Ser Tyr Asp Gly Thr Lys Glu Phe Tyr Ala Asp Ser Ala  
 50 55 60

Arg Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Arg Asn Thr Val Tyr  
 65 70 75 80

Leu Gln Val Asn Ser Leu Gly Val Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Asp Ala Gly Glu Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Val  
 100 105 110

Ile Glu Gly Tyr Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val  
 115 120 125

Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 130 135 140

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln  
 145 150 155 160

Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala  
 165 170 175

Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 180 185 190

Gly Lys Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser  
 195 200 205

Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His  
 225 230 235 240

Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1629

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1629

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Lys Tyr Tyr  
 20 25 30

Thr Tyr Ser Trp Ile Arg Gln Ala Pro Gly Gln Trp Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Asn Pro Ile Arg Gly Thr Ala Asn Tyr Ala Gln His Phe  
 50 55 60

Arg Gly Arg Val Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Gly Leu Gly Ser Asp Asp Thr Ala Val Tyr Phe Cys  
 85 90 95

Ala Thr Glu Gly Ala Ala Asp Tyr Leu Asn Gly Gln Tyr Phe Gln His  
 100 105 110

Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln  
 130 135 140

Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys  
 145 150 155 160

Thr Gly Thr Ser Ser Asp Ile Gly Gly Tyr Asn Tyr Val Ser Trp Tyr  
 165 170 175

Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser  
 180 185 190

Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245

&lt;210&gt; 1630

&lt;211&gt; 246

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1630

Gln Val Gln Leu Gln Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Asn Thr His  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Val Tyr Asn Gly Asn Ala Ile Ser Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Ile Thr Met Thr Thr Asp Thr Leu Thr Ser Thr Ala Phe  
 65 70 75 80

Met Glu Leu Lys Ser Leu Arg Ser Asp Asp Thr Gly Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Gly Ser Trp Ser Gly Leu Asp Leu Asp Tyr Trp Gly Gln  
 100 105 110

Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro Ser  
 130 135 140

Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser  
 145 150 155 160

Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp Tyr Gln Arg Leu Pro  
 165 170 175

Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asn Asp Gln Arg Pro Ser  
 180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Gly Ser  
 195 200 205

Leu Val Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys  
 210 215 220

Ala Ser Trp Asp Asp Ser Leu Asn Gly Arg Val Phe Gly Gly Gly Thr  
 225 230 235 240

Lys Leu Thr Val Leu Gly  
 245

<210> 1631

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1631

Gln Val Gln Leu Gln Gln Ser Gly Ser Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr Ile  
 145 150 155 160

Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn Thr Val Asn Trp

165 170 175  
 Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu Ile Tyr Asn Asp  
 180 185 190  
 Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205  
 Gly Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu  
 210 215 220  
 Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser Gly Gly Leu  
 225 230 235 240  
 Ser Val Phe Gly Ala Gly Thr Lys Val Thr Val Leu Gly  
 245 250  
 <210> 1632  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1632  
 Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Gln Thr Ser Gly Thr Thr Phe Arg His Ser  
 20 25 30  
 Ala Ile Thr Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu Trp Leu  
 35 40 45  
 Gly His Ile Ile Pro Val Phe Glu Thr Ala His Leu Ser Asp Lys Phe  
 50 55 60  
 Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Val Tyr  
 65 70 75 80  
 Met Glu Leu Ser Ser Leu Arg Phe Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Val Ser Gly Tyr Asn Ser Gly Tyr Phe Glu Ser Tyr Asp Met  
 100 105 110  
 Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Thr Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Ala Gly Ser Asn Gly Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1633

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1633

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Glu Arg Thr Val Arg Thr Ser  
 20 25 30

Asp Ile Ser Trp Ile Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  
 35 40 45

Gly Met Ile Ile Pro Ile Phe Gly Thr Thr Thr Tyr Ala Gln Gln Phe  
 50 55 60

Gln Gly Arg Val Ser Ile Asp Val Asp Ala Leu Thr Ser Thr Ser Val  
 65 70 75 80



Leu Glu Leu Gly Ser Leu Thr Pro Glu Asp Thr Ala Ile Tyr Tyr Cys  
                             85                            90                            95

Ala Thr Gln Gly Gly Gln Tyr Asp Ser Pro Pro Leu Asp Val Trp Gly  
                             100                            105                            110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
                             115                            120                            125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
                             130                            135                            140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
                             145                            150                            155                            160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
                             165                            170                            175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
                             180                            185                            190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
                             195                            200                            205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
                             210                            215                            220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
                             225                            230                            235                            240

Thr Lys Leu Thr Val Leu Gly  
                             245

<210> 1634

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1634

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Gly  
                             1                            5                            10                            15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
                             20                            25                            30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Tyr Ile Ser Arg Ser Ser Arg Ser Ile Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Ser Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Arg Asp Tyr Asp Ile Leu Thr Asp Tyr Ser Asn Tyr Gly  
 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1635

<211> 249

<212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1635

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr  
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Pro Leu Tyr Asp Ile Leu Thr Gly Tyr Tyr Ile Gly Gly  
 100 105 110

Asn Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Arg Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Val Val  
 130 135 140

Met Thr Gln Ser Pro Ser Ser Val Ser Ala Ser Val Gly Asp Arg Val  
 145 150 155 160

Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Tyr Leu Ala Trp  
 165 170 175

Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Ala Ala  
 180 185 190

Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser  
 195 200 205

Gly Thr Asp Phe Thr Leu Thr Ile Ser Thr Leu Gln Pro Glu Asp Val  
 210 215 220

Ala Thr Tyr Tyr Cys Glu Asn Tyr Asn Ser Val Pro Leu Ser Phe Gly  
 225 230 235 240

Gly Gly Thr Lys Leu Glu Ile Lys Arg  
 245

<210> 1636  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens

<400> 1636  
 Gln Val Gln Leu Val Gln Ser Gly Ala Gly Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Met Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Lys Asp Tyr Asp Ile Leu Thr Gly Tyr Trp Arg Asp Glu  
 100 105 110

Leu Leu Asp Tyr Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile

180

185

190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1637

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1637

Gln Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Arg His  
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Gly Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Gly Asp Leu Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Lys Asp Pro Asn Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Tyr Ala  
 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

1950

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Glu Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1638

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1638

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asp Tyr  
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Glu Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Thr Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Glu Phe Asp Gln Leu Leu Ala Arg Gly His Gly Met Asp Val  
 100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp  
 130 135 140

Pro Pro Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln  
 145 150 155 160

Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys Pro  
 165 170 175

Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro Ser  
 180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser  
 195 200 205

Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys  
 210 215 220

His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly Thr  
 225 230 235 240

Lys Leu Thr Val Leu Gly  
 245

<210> 1639

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1639

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala  
 130 135 140

Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp  
 145 150 155 160

Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys Pro Gly Gln  
 165 170 175

Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro Ser Gly Ile  
 180 185 190

Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr  
 195 200 205

Ile Thr Gly Val Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys His Ser  
 210 215 220

Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly Thr Lys Leu  
 225 230 235 240

Thr Val Leu Gly

<210> 1640

<211> 256

<212> PRT

<213> Homo sapiens

<400> 1640

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser



1	5	10	15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr	20	25	30
Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met	35	40	45
Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe	50	55	60
Gln Gly Trp Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr	65	70	75
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys	85	90	95
Ala Arg Ala Arg Gly Ser Tyr Asp Ile Leu Thr Gly Tyr Tyr Arg Pro	100	105	110
Gly Asp Gly Tyr Phe Asp Tyr Trp Gly Arg Gly Thr Leu Val Thr Val	115	120	125
Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly	130	135	140
Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly	145	150	155
Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly	165	170	175
Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys	180	185	190
Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg	195	200	205
Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly	210	215	220
Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr	225	230	235
			240

Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                   245                                  250                                  255

<210> 1641

<211> 249

<212> PRT

<213> Homo sapiens

<400> 1641

Gln Val Gln Leu Gln Gln Ser Gly Ala Lys Val Lys Arg Pro Gly Ser  
       1                                  5                                  10                                  15

Ser Val Lys Val Ser Cys Arg Pro Ser Gly Ala Thr Phe Ser Gly Tyr  
                                   20                                  25                                  30

Ala Leu Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Leu  
                                   35                                  40                                  45

Gly Arg Ile Ile Pro Ile Leu Gly Thr Ser Asn Phe Ala Gln Lys Phe  
       50                                  55                                  60

Gln Asp Arg Leu Thr Met Ser Ala Asp Glu Leu Thr Ser Thr Val Tyr  
       65                                  70                                  75                                  80

Met Glu Leu Asp Ser Leu Thr Ser Glu Asp Thr Ala Ile Tyr Tyr Cys  
                                   85                                  90                                  95

Ala Arg Gly Leu Tyr Phe Glu Asp Thr Asn Tyr Arg His Gly Asp Ala  
                                   100                                  105                                  110

Phe Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
                                   115                                  120                                  125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu  
       130                                  135                                  140

Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile  
       145                                  150                                  155                                  160

Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln  
                                   165                                  170                                  175

Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn  
                                   180                                  185                                  190

Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn

195                                      200                                      205  
 Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp  
     210                                      215                                      220  
 Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly  
     225                                      230                                      235                                      240  
 Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                     245  
 <210> 1642  
 <211> 255  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1642  
 Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Ser Glu  
     1                                      5                                      10                                      15  
 Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr  
                                     20                                      25                                      30  
 Tyr Trp Ser Trp Ile Arg Gln Ser Pro Gly Lys Gly Leu Glu Trp Ile  
                                     35                                      40                                      45  
 Gly Glu Ile Asn His Gly Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys  
     50                                      55                                      60  
 Ser Arg Val Thr Ile Ser Val Asp Ala Ser Lys Asn Gln Phe Ser Leu  
     65                                      70                                      75                                      80  
 Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
                                     85                                      90                                      95  
 Arg Glu Arg Ser Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Pro Arg Ser  
                                     100                                      105                                      110  
 Lys Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser  
     115                                      120                                      125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
     130                                      135                                      140  
 Gln Ser Val Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln  
     145                                      150                                      155                                      160

Arg Val Thr Ile Ser Cys Ser Gly Ser Ser Ser Asn Ile Gly Ser Asn  
 165 170 175

Thr Val Asn Trp Tyr Gln Arg Leu Pro Gly Ala Ala Pro Gln Leu Leu  
 180 185 190

Ile Tyr Asn Asn Asp Gln Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Thr Ser Gly Ser Leu Val Ile Ser Gly Leu Gln  
 210 215 220

Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu  
 225 230 235 240

Asn Gly Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255

<210> 1643

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1643

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1644  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens

<400> 1644  
 Lys Val Gln Leu Val Gln Ser Gly Ala Val Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Asn Asn  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Gly Ile Ile Pro Val Phe Glu Thr Ile Asn Thr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Val Asp Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Thr Glu Arg Gly Val Val Thr Ala Tyr Gly Gly Asp Ser Phe Asp  
100 105 110

Leu Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1645

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1645

Gln Val Gln Leu Gln Gln Trp Gly Ala Gly Leu Leu Lys Pro Pro Glu  
1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Gly Ser Leu Asn Gly Tyr

20 25 30  
 Tyr Trp Gly Trp Val Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile  
 35 40 45  
 Gly Glu Thr Asn His Arg Gly Thr Thr Asn Tyr Asn Pro Ser Leu Lys  
 50 55 60  
 Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn His Val Leu Leu  
 65 70 75 80  
 Arg Met Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95  
 Arg Arg Tyr Ser Asp Ala Leu Thr Gly Tyr Ser Leu Gly Ala Phe Asp  
 100 105 110  
 Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125  
 Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140  
 Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160  
 Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175  
 Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190  
 Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205  
 Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220  
 Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240  
 Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1646

&lt;211&gt; 252

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1646

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Thr Phe  
 20 25 30

Asn Ser Ser Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu  
 35 40 45

Glu Trp Met Gly Ile Ile His Pro Ser Gly Gly Ser Thr Ser Gln Val  
 50 55 60

Gln Lys Phe Gln Gly Arg Leu Thr Met Thr Arg Asp Thr Pro Thr Ser  
 65 70 75 80

Thr Val Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val  
 85 90 95

Tyr Tyr Cys Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr  
 100 105 110

Pro Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 130 135 140

Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr  
 145 150 155 160

Val Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser  
 165 170 175

Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly  
 180 185 190

Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp



210                                      215                                      220  
 Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val  
 225                                      230                                      235                                      240  
 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                     245                                      250  
 <210> 1647  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1647  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Met Lys Lys Pro Gly Ala  
 1                                      5                                      10                                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Phe Asp Ser  
                                     20                                      25                                      30  
 Tyr Ile His Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met  
                                     35                                      40                                      45  
 Gly Trp Ile Asn Ala Asn Asn Gly Gly Thr Lys Tyr Ala Gln Lys Phe  
                                     50                                      55                                      60  
 Gln Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr  
                                     65                                      70                                      75                                      80  
 Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
                                     85                                      90                                      95  
 Ala Arg Asp Tyr Pro Ile Asp Val Leu Thr Gly Arg Arg Thr Lys Asn  
                                     100                                      105                                      110  
 Trp Phe Asp Pro Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly  
                                     115                                      120                                      125  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu  
                                     130                                      135                                      140  
 Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg  
 145                                      150                                      155                                      160  
 Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
                                     165                                      170                                      175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn  
 180 185 190

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
 195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
 210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1648  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens

<400> 1648  
 Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Thr Ala Ser Gly Phe Thr Phe Ser Asn Tyr  
 20 25 30

Ala Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Thr Val Ile Ser Asp Asp Gly Asn Asn Val Asn Tyr Glu Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Val Lys Gln Ser Val Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Val Asp Arg Leu Leu Met Gln Tyr Asn Tyr Tyr Met  
 100 105 110

Asp Ala Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1649  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens

<400> 1649  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser His  
 20 25 30

Tyr Ile Ala Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Val Met Pro Ala Leu Gly Thr Ala Asn Tyr Ala Gln Arg Phe  
 50 55 60

Gln Gly Arg Val Thr Phe Thr Ala Asp Lys Ser Thr Thr Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Gln Val  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1650

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1650

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Leu Ser Asn Ala  
20 25 30

Trp Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

35                                      40                                      45  
 Gly Arg Ile Lys Ser Lys Thr Asp Gly Gly Thr Thr Asp Tyr Ala Ala  
     50                                      55                                      60  
 Pro Val Lys Gly Arg Phe Thr Ile Ser Lys Asp Asp Ser Lys Asn Thr  
     65                                      70                                      75                                      80  
 Leu Tyr Leu Gln Met Asn Ser Leu Lys Thr Glu Asp Thr Ala Val Tyr  
                                     85                                      90                                      95  
 Tyr Cys Thr Thr Asp Ala Tyr Tyr Asp Ile Leu Thr Gly Trp Val Tyr  
                                     100                                      105                                      110  
 Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly  
                                     115                                      120                                      125  
 Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
     130                                      135                                      140  
 Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
     145                                      150                                      155                                      160  
 Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
                                     165                                      170                                      175  
 Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
                                     180                                      185                                      190  
 Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
                                     195                                      200                                      205  
 Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
     210                                      215                                      220  
 Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
     225                                      230                                      235                                      240  
 Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                     245                                      250

&lt;210&gt; 1651

&lt;211&gt; 247

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1651

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Thr Val Ser Asn Tyr Ser Ile Ser Ser Gly  
 20 25 30

Tyr Tyr Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp  
 35 40 45

Ile Gly Ser Ile Tyr Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu  
 50 55 60

Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser  
 65 70 75 80

Leu Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Phe Arg Tyr Asp Ile Leu Thr Gly Tyr Tyr Tyr Asp Met Asp  
 100 105 110

Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln  
 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys  
 145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys  
 165 170 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro  
 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala  
 195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly

225

230

235

240

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1652

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1652

Gln Met Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ala Met Ser Trp Val Arg His Thr Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ala Ile Ser Gly Gly Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Gly Ala Phe Asp  
100 105 110

Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln  
130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys  
145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp Phe Gln Gln Lys  
165 170 175

Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys Asn Lys Arg Pro  
180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala  
 195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1653  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens

<400> 1653  
 Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ile Tyr  
 20 25 30

Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser His Asn Ala Asp His Thr Tyr Ser Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Ala Thr Arg Met Asp Val Leu Thr Arg Tyr Tyr Ser Asp Phe Trp  
 100 105 110

Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro  
 130 135 140



Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr  
 145 150 155 160

Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln  
 165 170 175

Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys  
 180 185 190

Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn  
 195 200 205

Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp  
 210 215 220

Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1654  
 <211> 247  
 <212> PRT  
 <213> Homo sapiens

<400> 1654  
 Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1655

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1655

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Lys Tyr Tyr  
 20 25 30

Thr Phe Ser Trp Ile Arg Gln Ala Pro Gly His Trp Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Asn Pro Ile Arg Gly Thr Ala Asn Tyr Ala Gln Lys Ser

50                                      55                                      60  
 Arg Gly Gly Val Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Val Tyr  
   65                                      70                                      75                                      80  
 Met Glu Leu Thr Ser Leu Glu Ser Asp Asp Thr Ala Val Tyr Phe Cys  
                                     85                                      90                                      95  
 Ala Ala Glu Gly Ala Ala Asp Tyr Leu Asn Gly Gln Tyr Phe Gln His  
                                     100                                      105                                      110  
 Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
                                     115                                      120                                      125  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp  
                                     130                                      135                                      140  
 Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln  
   145                                      150                                      155                                      160  
 Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro  
                                     165                                      170                                      175  
 Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser  
                                     180                                      185                                      190  
 Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser  
                                     195                                      200                                      205  
 Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys  
                                     210                                      215                                      220  
 Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr  
   225                                      230                                      235                                      240  
 Lys Leu Thr Val Leu Gly  
                                     245  
  
 <210> 1656  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1656  
 Lys Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
   1                                      5                                      10                                      15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Leu Ser Arg Tyr  
                   20                  25                  30  
 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                   35                  40                  45  
 Gly Gly Ile Ile Pro Val Phe Gly Thr Glu Asn Tyr Ser Gln Lys Phe  
                   50                  55                  60  
 Gln Gly Arg Val Ser Ile Thr Ala Asp Glu Leu Thr Asn Thr Ala Tyr  
                   65                  70                  75                  80  
 Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Gln Tyr Tyr Cys  
                   85                  90                  95  
 Ala Ala Asp Thr Arg Val Ile Gly Ile Gln Leu Trp Glu Arg Gly Ala  
                   100                  105                  110  
 Phe Asp Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
                   115                  120                  125  
 Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
                   130                  135                  140  
 Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
                   145                  150                  155                  160  
 Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
                   165                  170                  175  
 Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
                   180                  185                  190  
 Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
                   195                  200                  205  
 Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
                   210                  215                  220  
 Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
                   225                  230                  235                  240  
 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly

245

250

&lt;210&gt; 1657

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1657

Pro Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Val Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1658

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1658

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Ser Thr His  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Met Ser Ala Thr Thr Arg Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Leu Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val His  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Pro Leu Gly Ile Thr Ala Val Arg Gly Ala Lys Thr Asp Ala  
 100 105 110

Phe Gly Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1659

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1659

Gln Val Gln Leu Gln Gln Ser Gly Pro Gly Leu Leu Lys Pro Ser Glu  
 1 5 10 15

Thr Leu Ser Leu Thr Cys Ala Val Tyr Gly Gly Ser Phe Ser Gly Tyr  
 20 25 30

Tyr Trp Ser Trp Ile Arg Gln Pro Pro Gly Lys Gly Leu Glu Trp Ile  
 35 40 45

Gly Glu Ile Asn His Ser Gly Ser Thr Asn Tyr Asn Pro Ser Leu Lys  
 50 55 60

Ser Arg Val Thr Ile Ser Val Asp Thr Ser Lys Asn Gln Phe Ser Leu  
 65 70 75 80

Lys Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Gly Arg Arg Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Leu Gly Arg  
 100 105 110

Gly Glu Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys  
 145 150 155 160

Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr  
 165 170 175

Val Ser Trp Tyr His Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
 180 185 190

Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser  
 225 230 235 240

Glu Phe Leu Phe Gly Ala Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1660  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens

<400> 1660  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr



65		70		75		80									
Met	Glu	Leu	Ser	Ser	Leu	Gly	Ser	Glu	Asp	Thr	Ala	Leu	Tyr	Tyr	Cys
			85						90					95	
Ala	Arg	Ala	Thr	Tyr	Asp	Pro	Leu	Thr	Gly	Tyr	Ser	Phe	Asp	Gly	Phe
			100					105					110		
Asp	Ile	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly
		115					120					125			
Gly	Ser	Gly	Gly	Gly	Gly	Ser	Gly	Gly	Gly	Gly	Ser	Ser	Glu	Leu	Thr
		130				135					140				
Gln	Asp	Pro	Ala	Val	Ser	Val	Ala	Leu	Gly	Gln	Ala	Val	Arg	Ile	Thr
145					150					155					160
Cys	Gln	Gly	Asp	Ser	Leu	Arg	Ser	Tyr	Tyr	Ala	Ser	Trp	Tyr	Gln	Gln
				165					170					175	
Lys	Pro	Gly	Gln	Ala	Pro	Val	Leu	Val	Ile	Tyr	Gly	Lys	Asn	Asn	Arg
			180					185					190		
Pro	Ser	Gly	Ile	Pro	Asp	Arg	Phe	Ser	Gly	Ser	Ser	Ser	Gly	Asn	Thr
		195					200					205			
Ala	Ser	Leu	Thr	Ile	Thr	Gly	Ala	Gln	Ala	Glu	Asp	Glu	Ala	Asp	Tyr
		210				215					220				
Tyr	Cys	Asn	Ser	Arg	Asp	Ser	Ser	Gly	Asn	His	Val	Val	Phe	Gly	Gly
225					230					235				240	
Gly	Thr	Lys	Leu	Thr	Val	Leu	Gly								
			245												

&lt;210&gt; 1661

&lt;211&gt; 247

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1661

Glu	Val	Gln	Leu	Val	Gln	Ser	Gly	Ala	Glu	Val	Lys	Lys	Pro	Gly	Ser
1				5					10					15	

Ser	Val	Lys	Val	Ser	Cys	Lys	Thr	Ser	Gly	Gly	Thr	Phe	Ser	Ser	Tyr
			20					25					30		

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Pro Ala Arg Tyr Ala Glu Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Lys Thr Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Thr Ser Leu Met Asn Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1662

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1662

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Ala Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly His Thr Phe Thr Ser Tyr  
 20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Thr Ala Tyr Asn Gly Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Asn Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Pro Tyr Asp Val Leu Thr Gly Tyr Leu Ser Gly Asn Phe  
 100 105 110

Asp Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1663  
 <211> 247  
 <212> PRT  
 <213> Homo sapiens

<400> 1663  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Glu Arg Thr Val Arg Thr Ser  
 20 25 30

Asp Ile Ser Trp Ile Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  
 35 40 45

Gly Met Ile Ile Pro Ile Phe Gly Thr Thr Thr Tyr Ala Gln Gln Phe  
 50 55 60

Gln Gly Arg Val Ser Ile Asp Val Asp Ala Leu Thr Ser Thr Ser Val  
 65 70 75 80

Leu Glu Leu Gly Ser Leu Thr Pro Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Thr Gln Gly Gly Gln Tyr Asp Ser Pro Pro Phe Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1664

<211> 259

<212> PRT

<213> Homo sapiens

<400> 1664

Gln Val Gln Leu Val Gln Ser Gly Gly Ala Leu Val Gln Pro Gly Arg  
 1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asn Asp Tyr  
 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Gly Val Ser Trp Asn Ser Gly Ser Ile Ala Tyr Ala Glu Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Ser  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Glu Lys Ala Arg Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr  
 100 105 110

Ser Ala Trp Gly Gly Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Leu  
 115 120 125

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
130 135 140

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly  
145 150 155 160

Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp  
165 170 175

Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys  
180 185 190

Ala Pro Lys Leu Met Ile Tyr Glu Gly Gly Lys Arg Pro Ser Gly Val  
195 200 205

Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr  
210 215 220

Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser  
225 230 235 240

Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr  
245 250 255

Val Leu Gly

<210> 1665

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1665

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Thr Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
20 25 30

Val Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Arg Ile Thr Pro Ile Leu Gly Thr Pro Asn Leu Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Leu Thr Ile Thr Ala Asp Glu Leu Thr Lys Thr Ala Tyr

65 70 75 80

Met Glu Leu Ser Arg Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Thr Leu Asn Leu Glu Lys Thr Val Ile Arg Gly Phe Gly Tyr Phe  
100 105 110

Asp Leu Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1666  
<211> 252  
<212> PRT  
<213> Homo sapiens

<400> 1666

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Val Gly Gly Tyr Asp Ile Leu Thr Gly Tyr Tyr Leu Arg Gly  
 100 105 110

Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Arg Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1667



&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1667

Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Leu Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1668  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens

<400> 1668  
 Gly Val Gln Leu Val Gln Ser Gly Ser Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1669

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1669

Glu Val Gln Leu Val Glu Ser Gly Ala Glu Val Lys Arg Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala His Gly Gly Thr Phe Ser Ser Ser  
 20 25 30

Met Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Phe Ile Pro Ile Phe Gly Thr Glu Arg Lys Ala Pro Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Ser Pro Tyr Asp Thr Leu Thr Gly Tyr Val Tyr Asn Gly Val  
 100 105 110

Asp Val Trp Gly Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
 180 185 190

Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Arg Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1670

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1670

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys

85 90 95  
 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110  
 Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140  
 Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160  
 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175  
 Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190  
 Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205  
 Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220  
 Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240  
 Gly Thr Lys Leu Ala Val Leu Gly  
 245  
 <210> 1671  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1671  
 Gln Val Thr Leu Lys Glu Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
 20 25 30  
 Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Thr Asn Tyr Ala Glu Lys Phe  
 50 55 60  
 Gln Gly Arg Leu Thr Ile Thr Ala Asp Glu Leu Thr Asn Thr Thr Tyr  
 65 70 75 80  
 Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Arg Val Ala Ala Ala Gly Ala Arg Thr Leu Gly Tyr Phe Gly Met  
 100 105 110  
 Asp Val Trp Gly Gly Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140  
 Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile  
 145 150 155 160  
 Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp  
 165 170 175  
 Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val  
 180 185 190  
 Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser  
 195 200 205  
 Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu  
 210 215 220  
 Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu  
 225 230 235 240  
 Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

&lt;210&gt; 1672

&lt;211&gt; 253

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1672

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Asp  
 1 5 10 15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser His  
 20 25 30

Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Val Ile Asn Pro Thr Gly Ser Ala Thr Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Asp Arg Val Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Asp Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Val Ser Gly His Asp Ile Leu Thr Gly Tyr Ser Tyr Arg  
 100 105 110

Tyr Phe Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly  
 115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser  
 130 135 140

Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile  
 145 150 155 160

Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr  
 165 170 175

Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile  
 180 185 190

Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly  
 195 200 205

Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala  
 210 215 220

Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr  
 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                   245                                  250

<210> 1673

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1673

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Met Val Gln Pro Gly Gly  
       1                  5                                  10                                  15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Thr Tyr  
                   20                                  25                                  30

Gly Met Ala Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
                   35                                  40                                  45

Ser Val Ile Glu Asn Ser Gly Gly Thr Thr Tyr Tyr Ala Asp Ser Val  
       50                                  55                                  60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
       65                                  70                                  75                                  80

Leu Gln Leu Asn Ser Leu Ser Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                   85                                  90                                  95

Ala Asn Ser Pro Met Tyr Tyr Asp Arg Leu Thr Gly Phe Tyr Pro Ser  
                   100                                  105                                  110

Gly Tyr Phe Asp Ser Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser  
                   115                                  120                                  125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
       130                                  135                                  140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
       145                                  150                                  155                                  160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
                   165                                  170                                  175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
                   180                                  185                                  190



Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1674  
 <211> 252  
 <212> PRT  
 <213> Homo sapiens

<400> 1674  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 20 25 30

Gly Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Trp Ile Ser Gly Tyr Asn Asp Asn Thr Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Thr Asp Thr Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Tyr Gly  
 100 105 110

Met Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
 225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1675

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1675

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Arg Arg Pro Gly Ala  
 1 5 10 15

Ser Val Arg Val Ser Cys Gln Ala Ser Gly Tyr Thr Phe Thr Asn Phe  
 20 25 30

Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Leu  
 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Thr Ser Asn Phe Ala Gln Lys Phe  
 50 55 60

Gln Asp Arg Leu Thr Met Ser Ala Asp Glu Leu Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Asp Ser Leu Thr Ser Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Pro Ser Ser Ala Gly Thr Thr Ile Gly Leu Gly Ser Phe

100 105 110  
 Asp Pro Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140  
 Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160  
 Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Gly Trp Tyr Gln Gln  
 165 170 175  
 Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190  
 Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205  
 Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220  
 Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240  
 Gly Thr Lys Leu Thr Val Leu Gly  
 245  
 <210> 1676  
 <211> 250  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1676  
 Ala Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Gln Pro Gly Ser  
 1 5 10 15  
 Ser Val Asn Val Ser Cys Lys Val Ser Gly Gly Thr Phe Gly Ser Ser  
 20 25 30  
 Gly Ile Thr Trp Val Arg Gln Ala Pro Gly Glu Gly Leu Glu Trp Met  
 35 40 45  
 Gly Arg Ile Ile Pro Val Leu Gly Thr Thr Asn Tyr Ala Gln Arg Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Ile Ala Asp Glu Leu Thr Asn Thr Val Asn  
65 70 75 80

Met Glu Leu Ser Gly Leu Arg Ser Glu Asp Thr Ala Thr Tyr Tyr Cys  
85 90 95

Ala Arg Glu Thr Arg Lys Tyr Thr Ser Ser Pro Pro Tyr Asn Tyr Tyr  
100 105 110

Tyr Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly  
115 120 125

Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu  
130 135 140

Leu Ala Gln Asp Pro Ala Val Ser Val Ala Ser Gly Gln Thr Val Arg  
145 150 155 160

Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr  
165 170 175

Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn  
180 185 190

Asn Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly  
195 200 205

Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala  
210 215 220

Asp Tyr Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe  
225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1677

<211> 243

<212> PRT

<213> Homo sapiens

<400> 1677

Glu Val Gln Leu Gln Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser  
1 5 10 15

Ser Val Arg Val Ser Cys Arg Phe Thr Glu Ser Pro Ile His Trp Val  
 20 25 30

Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Leu Gly Gly Phe Asp Arg  
 35 40 45

Glu Glu Gly Lys Thr Leu Tyr Ala Gln Lys Phe Gln Gly Arg Val Ile  
 50 55 60

Leu Thr Glu Asp Phe Leu Thr Lys Thr Ala Tyr Leu Glu Met Arg Thr  
 65 70 75 80

Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Val Phe Asp Gln Phe  
 85 90 95

Ser Val Gly Gly Arg His Ala Phe Asp Leu Trp Gly Arg Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly  
 130 135 140

Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp  
 145 150 155 160

Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys  
 165 170 175

Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val  
 180 185 190

Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr  
 195 200 205

Ile Ser Gly Leu Gln Ala Glu Asp Gly Ala Asp Tyr Tyr Cys Ser Ser  
 210 215 220

Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr  
 225 230 235 240

Val Leu Gly

&lt;210&gt; 1678

&lt;211&gt; 242

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1678

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Asn Tyr  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Leu  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Tyr  
 65 70 75 80

Met Asp Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Gly Met Gly Asp His Tyr Gly Met Asp Val Trp Gly Lys Gly  
 100 105 110

Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser  
 130 135 140

Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp Ser Leu  
 145 150 155 160

Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro  
 165 170 175

Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile Pro Asp  
 180 185 190

Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr  
 195 200 205

Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser Arg Asp  
 210 215 220

Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu Thr Val  
 225 230 235 240

Leu Gly

<210> 1679

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1679

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
 20 25 30

Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Glu Pro Glu Trp Met  
 35 40 45

Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
 130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
 145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
 165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
 180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
 225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1680

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1680

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly



115                                      120                                      125  
 Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Thr Ala  
     130                                      135                                      140  
 Cys Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Val Ser Cys Thr Gly  
 145                                      150                                      155                                      160  
 Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Ser His Gln  
                                     165                                      170                                      175  
 His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
                                     180                                      185                                      190  
 Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Ile Thr  
                                     195                                      200                                      205  
 Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
                                     210                                      215                                      220  
 Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Ala Gly Gly  
 225                                      230                                      235                                      240  
 Thr Lys Leu Thr Val Leu Gly  
                                     245  
  
 <210> 1681  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1681  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
     1                                      5                                      10                                      15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Lys Tyr  
                                     20                                      25                                      30  
 Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                                     35                                      40                                      45  
 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
     50                                      55                                      60  
 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
     65                                      70                                      75                                      80

Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
                                   85                                  90                                  95

Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
                                   100                                  105                                  110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
                                   115                                  120                                  125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
                                   130                                  135                                  140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
                                   145                                  150                                  155                                  160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
                                   165                                  170                                  175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
                                   180                                  185                                  190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
                                   195                                  200                                  205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
                                   210                                  215                                  220

Tyr Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly  
                                   225                                  230                                  235                                  240

Gly Thr Lys Leu Thr Val Leu Gly  
                                   245

<210> 1682

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1682

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
                                   1                                  5                                  10                                  15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
                                   20                                  25                                  30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro  
 130 135 140

Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly  
 145 150 155 160

Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln His  
 165 170 175

Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val Ser Lys Arg Pro  
 180 185 190

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn Ser Ala  
 195 200 205

Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1683

<211> 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1683

Gly Val Gln Leu Val Gln Ser Gly Ala Val Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Arg Asn Asn  
 20 25 30

Ala Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Val  
 35 40 45

Gly Gly Ile Ile Pro Val Phe Glu Thr Ile Asn Thr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Thr Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Val Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Glu Arg Gly Val Val Thr Ala Tyr Gly Gly Asp Ser Phe Asp  
 100 105 110

Leu Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser  
 145 150 155 160

Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp  
 165 170 175

Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly  
 180 185 190

Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser  
 195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu  
 210 215 220

Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe  
 225 230 235 240

Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1684  
 <211> 253  
 <212> PRT  
 <213> Homo sapiens

<400> 1684  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Gln Ala Ser Gly Gly Thr Phe Ser Thr His  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Met Ser Ala Thr Thr Arg Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Leu Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val His  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Pro Leu Gly Ile Thr Ala Val Arg Gly Ala Lys Thr Asp Ala  
 100 105 110

Phe Gly Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val  
 165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
 180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
 195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
 210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ala Ser Trp Asp Asp Ser Leu Asn Gly  
 225 230 235 240

Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1685

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1685

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Gln Gly Thr Pro Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro

130                      135                      140  
 Ser Ala Ser Gly Ser Pro Gly Gln Ser Val Thr Ile Ser Cys Thr Gly  
 145                      150                      155                      160  
 Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
 165                      170                      175  
 His Pro Gly Lys Ala Pro Lys Phe Met Ile Tyr Asp Val Ser Lys Arg  
 180                      185                      190  
 Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195                      200                      205  
 Ala Ser Leu Thr Ile Ser Gly Val Gln Ala Glu Asp Glu Ala Asp Tyr  
 210                      215                      220  
 Tyr Cys Ser Ser Tyr Thr Ser Ala Ser Thr Val Ile Phe Gly Gly Gly  
 225                      230                      235                      240  
 Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1686  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens

<400> 1686  
 Gly Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1                      5                      10                      15

Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Ser Ser Arg Phe  
 20                      25                      30

Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35                      40                      45

Gly Gly Ile Asn Arg Ile Arg Pro Thr Leu Asn Ile Ala Gln Lys Phe  
 50                      55                      60

Gln Gly Arg Leu Val Ile Asn Val Asp Glu Leu Thr Asn Thr Thr Tyr  
 65                      70                      75                      80

Met Glu Leu Thr Ser Leu Thr Ser Glu Asp Thr Ala Ile Tyr Tyr Cys  
 85                      90                      95

Thr Arg Asp Trp Gly His Trp Phe Asp Pro Trp Gly Arg Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser  
 130 135 140

Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser  
 145 150 155 160

Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly  
 165 170 175

Lys Ala Pro Lys Leu Met Ile Tyr Glu Val Ser Asn Arg Pro Ser Gly  
 180 185 190

Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu  
 195 200 205

Thr Ile Ser Gly Leu Gln Ala Gly Asp Glu Ala Asp Tyr Tyr Cys Ser  
 210 215 220

Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr Lys Leu  
 225 230 235 240

Thr Val Leu Gly

<210> 1687

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1687

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45



Gly Gly Ile Leu Pro Ile Phe Gly Ser Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ser Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1688

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1688

Gln Val Gln Leu Val Gln Ser Gly Ala Lys Val Lys Lys Pro Gly Ala  
 1 5 10 15  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Gly Tyr  
 20 25 30  
 Tyr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45  
 Gly Trp Ile Asn Pro Asn Ser Gly Gly Thr Asn Tyr Ala Gln Lys Phe  
 50 55 60  
 Gln Gly Arg Ala Thr Ile Thr Ala Asp Lys Ala Thr Ser Thr Ala Tyr  
 65 70 75 80  
 Met Glu Val Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95  
 Ala Thr Glu Pro Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Ser Tyr Phe  
 100 105 110  
 Asp Tyr Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130 135 140  
 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145 150 155 160  
 Ser Cys Thr Gly Thr Ser Ser Asp Val Asp Gly Tyr Asn Tyr Val Ser  
 165 170 175  
 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
 180 185 190  
 Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
 195 200 205  
 Ser Gly Asp Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
 210 215 220  
 Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                           245                          250

<210> 1689

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1689

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser  
       1                          5                          10                          15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
                           20                          25                          30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                           35                          40                          45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
       50                          55                          60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
       65                          70                          75                          80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
                           85                          90                          95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
                           100                          105                          110

Lys Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
                           115                          120                          125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
       130                          135                          140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
       145                          150                          155                          160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
                           165                          170                          175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
                           180                          185                          190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1690

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1690

Gln Val Gln Leu Gln Gln Trp Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15

Ser Gln Arg Leu Ser Cys Val Ala Ser Gly Phe Thr Phe Ser Thr Tyr  
 20 25 30

Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ala Val Ile Ser Tyr Asp Gly Ser Lys Lys Tyr Tyr Gly Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Val Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Met Tyr Tyr Cys  
 85 90 95

Ala Asn Thr Tyr Tyr Asp Ile Leu Thr Gly Tyr Ser Gly Gly Gly Ala  
 100 105 110

Phe Asp Tyr Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr

145                      150                      155                      160  
 Ile Ser Cys Thr Gly Thr Ser Gly Asp Val Gly Gly Tyr Asn Tyr Val  
                                  165                      170                      175  
 Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
                                  180                      185                      190  
 Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
                                  195                      200                      205  
 Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
                                  210                      215                      220  
 Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
                                  225                      230                      235                      240  
 Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
                                  245                      250  
  
 <210> 1691  
 <211> 246  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1691  
 Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
   1                                  5                                  10                                  15  
  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Asn Tyr  
                                   20                                  25                                  30  
  
 Gly Val Ala Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
                                   35                                  40                                  45  
  
 Gly Trp Ile Ser Gly Tyr Asp Gly Thr Thr Lys Tyr Ala Gln Asn Phe  
                                   50                                  55                                  60  
  
 Gln Asp Arg Val Thr Met Thr Thr Asp Thr Leu Thr Lys Thr Ala Tyr  
                                   65                                  70                                  75                                  80  
  
 Met Glu Leu Arg Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
                                   85                                  90                                  95  
  
 Thr Arg Gly Ser Arg Val Arg Gly Val Thr Pro Asp Leu Trp Gly Arg  
                                   100                                  105                                  110

Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala Ser  
 130 135 140

Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly Thr  
 145 150 155 160

Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His  
 165 170 175

Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg Pro  
 180 185 190

Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala  
 195 200 205

Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly Thr  
 225 230 235 240

Lys Leu Thr Val Leu Gly  
 245

<210> 1692

<211> 244

<212> PRT

<213> Homo sapiens

<400> 1692

Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala  
130 135 140

Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp  
145 150 155 160

Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln  
165 170 175

Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile  
180 185 190

Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr  
195 200 205

Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser  
210 215 220

Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu  
225 230 235 240

Thr Val Leu Gly

<210> 1693  
<211> 256  
<212> PRT  
<213> Homo sapiens

<400> 1693  
Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Met Lys Lys Ser Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser His Ser  
 20 25 30  
 Val Phe Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45  
 Gly Gly Ile Thr Pro Met Phe Asp Thr Val Asn Tyr Ala Gln Lys Phe  
 50 55 60  
 Gln Gly Arg Val Thr Ile Ile Ala Asp Lys Leu Thr Asn Thr Val His  
 65 70 75 80  
 Met Glu Val Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Phe Cys  
 85 90 95  
 Ala Ser Glu Cys Ser Gly Ser Ser Cys Pro Ala Arg Gln Pro Pro Tyr  
 100 105 110  
 Tyr Gln Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val  
 115 120 125  
 Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
 130 135 140  
 Ser Gln Ser Val Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly  
 145 150 155 160  
 Gln Lys Val Thr Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn  
 165 170 175  
 Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu  
 180 185 190  
 Met Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe  
 195 200 205  
 Ser Gly Ser Lys Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu  
 210 215 220  
 Gln Ser Glu Asp Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser  
 225 230 235 240  
 Leu Ser Glu Phe Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
 245 250 255



&lt;210&gt; 1694

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1694

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110

Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala  
 130 135 140

Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp  
 145 150 155 160

Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln  
 165 170 175

Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro Ser Gly Ile  
 180 185 190

Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr  
 195 200 205

Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser  
 210 215 220

Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr Lys Leu  
 225 230 235 240

Thr Val Leu Gly

<210> 1695

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1695

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Met Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Gly Asn Tyr  
 20 25 30

Ala Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Phe Glu Trp Met  
 35 40 45

Gly Ile Ile His Pro Ser Gly Gly Ser Thr Ser Gln Val Gln Lys Phe  
 50 55 60

Gln Gly Arg Leu Thr Met Thr Arg Asp Thr Ser Thr Ser Thr Val Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Tyr Gly  
 100 105 110

Met Asp Val Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
 130 135 140

Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr  
 145 150 155 160

Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val

165 170 175

Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr  
180 185 190

Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser  
195 200 205

Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu  
210 215 220

Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1696  
<211> 247  
<212> PRT  
<213> Homo sapiens

<400> 1696

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Glu Arg Thr Val Arg Thr Ser  
20 25 30

Gly Ile Ser Trp Ile Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  
35 40 45

Gly Met Ile Ile Pro Ile Phe Gly Thr Thr Thr Tyr Ala Gln Gln Phe  
50 55 60

Gln Gly Arg Val Ser Ile Asp Val Asp Ala Leu Thr Ser Thr Ser Val  
65 70 75 80

Leu Glu Leu Gly Ser Leu Thr Pro Glu Asp Thr Ala Ile Tyr Tyr Cys  
85 90 95

Ala Thr Gln Gly Gly Gln Tyr Asp Ser Pro Pro Leu Asp Val Trp Gly  
100 105 110

Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly  
115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala  
 130 135 140

Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly  
 145 150 155 160

Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln  
 165 170 175

His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg  
 180 185 190

Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr  
 195 200 205

Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr  
 210 215 220

Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1697  
 <211> 247  
 <212> PRT  
 <213> Homo sapiens

<400> 1697  
 Gln Val Gln Leu Leu Gln Ser Ala Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Arg Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80



Ala Ile His Trp Val Arg Gln Ala Pro Gly Gln Arg Leu Glu Trp Met  
           35                          40                          45  
  
 Gly Arg Ile Asn Ala Gly Asn Gly Asn Thr Lys Tyr Ser Gln Lys Phe  
           50                          55                          60  
  
 Gln Gly Arg Val Thr Ile Thr Arg Asp Thr Ser Ala Ser Thr Ala Tyr  
           65                          70                          75                          80  
  
 Met Glu Leu Asn Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
                           85                          90                          95  
  
 Ala Arg Gly Ala Tyr Tyr Asp Ile Leu Thr Gly Tyr Tyr Pro Tyr Gly  
                           100                          105                          110  
  
 Met Asp Val Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly  
           115                          120                          125  
  
 Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val  
           130                          135                          140  
  
 Leu Thr Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr  
           145                          150                          155                          160  
  
 Ile Ser Cys Ser Gly Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser  
                           165                          170                          175  
  
 Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp  
           180                          185                          190  
  
 Val Ser Lys Arg Pro Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys  
           195                          200                          205  
  
 Ser Gly Asn Ser Ala Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp  
           210                          215                          220  
  
 Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe  
           225                          230                          235                          240  
  
 Leu Phe Gly Thr Gly Thr Lys Leu Thr Val Leu Gly  
                           245                          250

&lt;210&gt; 1699

&lt;211&gt; 254

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1699

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Tyr Arg Asn Tyr Asp Ile Leu Thr Gly His Pro Tyr Tyr  
 100 105 110

Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Thr Val Thr Val Ser Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
 130 135 140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
 145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
 165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
 180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Pro Asn Arg Phe Ser  
 195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
 210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
 225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1700

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1700

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Ser Tyr  
 20 25 30

Ala Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Lys Ile Asn Pro Ser Gly Thr Ser Val Thr Tyr Ala Gln Arg Phe  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Arg Asp Thr Ser Thr Ser Thr Asn Tyr  
 65 70 75 80

Met Glu Val Asn Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Gly Gln His Tyr Asp Ile Leu Thr Gly Tyr Ser Gln Glu Pro Phe  
 100 105 110

Asp Ile Trp Gly Arg Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Gln Met  
 130 135 140

Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Ile Gly Asp Arg Val Thr  
 145 150 155 160

Ile Thr Cys Arg Ala Ser Glu Gly Ile Tyr His Trp Leu Ala Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr Lys Ala Ser



180                                      185                                      190  
 Ser Leu Ala Ser Gly Ala Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly  
     195                                      200                                      205  
 Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Asp Asp Phe Ala  
     210                                      215                                      220  
 Thr Tyr Tyr Cys Gln Gln Tyr Ser Asn Tyr Pro Leu Thr Phe Gly Gly  
     225                                      230                                      235                                      240  
 Gly Thr Lys Leu Glu Ile Lys Arg  
                                     245  
 <210> 1701  
 <211> 254  
 <212> PRT  
 <213> Homo sapiens  
 <400> 1701  
 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
     1                                      5                                      10                                      15  
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
                                     20                                      25                                      30  
 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
                                     35                                      40                                      45  
 Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
     50                                      55                                      60  
 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
     65                                      70                                      75                                      80  
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
                                     85                                      90                                      95  
 Ala Lys Asp Gln Thr Tyr Tyr Asp Ile Leu Thr Gly His Tyr Tyr Tyr  
                                     100                                      105                                      110  
 Tyr Gly Met Asp Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser  
                                     115                                      120                                      125  
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln  
     130                                      135                                      140

Ser Val Leu Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser  
145 150 155 160

Ile Thr Ile Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn  
165 170 175

Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met  
180 185 190

Ile Tyr Glu Gly Ser Lys Arg Pro Ser Gly Val Ser Asn Arg Phe Ser  
195 200 205

Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln  
210 215 220

Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser  
225 230 235 240

Thr Arg Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1702

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1702

Gln Val Gln Leu Gln Gln Trp Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Lys Tyr Tyr  
20 25 30

Thr Tyr Ser Trp Ile Arg Gln Ala Pro Gly Gln Trp Leu Glu Trp Met  
35 40 45

Gly Ser Ile Asn Pro Val Arg Gly Thr Ala Asn Tyr Ala Gln His Leu  
50 55 60

Arg Gly Arg Val Thr Ile Ile Ala Asp Glu Leu Thr Ser Thr Val Tyr  
65 70 75 80

Met Asp Leu Ser Gly Leu Gly Ser Asp Asp Thr Ala Val Tyr Phe Cys  
85 90 95

Ala Thr Glu Gly Ala Ala Asp Tyr Leu Asn Gly Gln Tyr Phe Gln His  
100 105 110

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln Asp  
130 135 140

Pro Ala Met Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln  
145 150 155 160

Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys Pro  
165 170 175

Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Arg Asn Asn Arg Pro Ser  
180 185 190

Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser  
195 200 205

Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys  
210 215 220

Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly Thr  
225 230 235 240

Lys Leu Thr Val Leu Gly  
245

<210> 1703

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1703

Gln Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
20 25 30

Ser Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 40 45

Ser Ser Ile Ser Ser Ser Ser Ser Tyr Ile Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr  
 65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Thr Leu Gly Tyr Tyr Asp Ile Leu Thr Gly Tyr Arg Ser Asp Asp  
 100 105 110

Tyr Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln  
 130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys  
 145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys  
 165 170 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro  
 180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala  
 195 200 205

Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Asn Ser Arg Asp Ser Ser Gly Asn His Val Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1704

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1704

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser

1	5	10	15
Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr	20	25	30
Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met	35	40	45
Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe	50	55	60
Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr	65	70	75
Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys	85	90	95
Ala Arg Ala Gly Ser Ser Leu Met Ala Tyr Gly Thr Asp Val Trp Gly	100	105	110
Arg Gly Thr Thr Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly	115	120	125
Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Ala	130	135	140
Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile Ser Cys Thr Gly	145	150	155
Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln	165	170	175
His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu Gly Ser Lys Arg	180	185	190
Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr	195	200	205
Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr	210	215	220
Tyr Cys Ser Ser His Thr Thr Arg Ser Thr Arg Val Phe Gly Gly Gly	225	230	235
			240

Thr Lys Leu Thr Val Leu Gly  
245

<210> 1705

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1705

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
35 40 45

Gly Arg Ile Ile Pro Ile Val Asn Met Ala Asn Tyr Ala Gln Lys Phe  
50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Lys Ser Thr Gly Thr Ala Tyr  
65 70 75 80

Met Glu Leu Thr Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Glu Asn Tyr Asp Phe Leu Thr Gly Tyr Tyr Gly Ala Phe Asp  
100 105 110

Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly  
115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr Gln  
130 135 140

Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys  
145 150 155 160

Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln Lys  
165 170 175

Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg Pro  
180 185 190

Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asp Thr Ala

195                      200                      205  
 Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr  
 210                      215                      220  
  
 Cys Asn Ser Arg Asp Ser Ser Ser Thr His Arg Gly Val Phe Gly Gly  
 225                      230                      235                      240  
  
 Gly Thr Lys Leu Thr Val Leu Gly  
 245  
  
 <210> 1706  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1706  
 Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala  
 1                      5                      10                      15  
  
 Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Asn Asn  
 20                      25                      30  
  
 Val Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35                      40                      45  
  
 Gly Trp Ile Asn Gly Gly Ser Gly Asp Thr Lys Tyr Ser Arg Lys Phe  
 50                      55                      60  
  
 Gln Gly Arg Val Thr Ile Thr Lys Asp Thr Ser Ala Ser Ala Ala Tyr  
 65                      70                      75                      80  
  
 Met Glu Leu Ser Ser Leu Gly Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
 85                      90                      95  
  
 Ala Arg Ala Thr Tyr Asp Pro Leu Thr Gly Tyr Ser Phe Asp Gly Phe  
 100                      105                      110  
  
 Asp Ile Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115                      120                      125  
  
 Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu  
 130                      135                      140  
  
 Thr Gln Pro Ala Ser Val Ser Gly Ser Pro Gly Gln Ser Ile Thr Ile  
 145                      150                      155                      160

Ser Cys Thr Gly Thr Ser Ser Asp Val Gly Gly Tyr Asn Tyr Val Ser  
 165 170 175

Trp Tyr Gln Gln His Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Glu  
 180 185 190

Gly Ser Glu Arg Pro Ser Gly Val Ser Asn Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Asn Thr Ala Ser Leu Thr Ile Ser Gly Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr Thr Thr Arg Ser Thr Arg Val  
 225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 245 250

<210> 1707

<211> 247

<212> PRT

<213> Homo sapiens

<400> 1707

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Asp Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Leu Pro Ile Phe Gly Thr Ala Lys Tyr Ala Glu Lys Phe  
 50 55 60

Glu Asp Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Arg Arg Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Ala Gly Ser Ser Leu Met Thr Tyr Gly Thr Asp Val Trp Gly  
 100 105 110



Lys Gly Thr Leu Val Thr Val Ser Pro Gly Gly Gly Ser Gly Gly  
 115 120 125

Gly Gly Ser Gly Gly Gly Gly Ser Gln Ser Val Leu Thr Gln Pro Pro  
 130 135 140

Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser Cys Ser Gly  
 145 150 155 160

Ser Thr Ser Asn Ile Gly Asn Asn Tyr Val Ser Trp Tyr Gln Gln His  
 165 170 175

Pro Gly Lys Ala Pro Lys Leu Met Ile Tyr Asp Val Ser Lys Arg Pro  
 180 185 190

Ser Gly Val Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly Asn Ser Ala  
 195 200 205

Ser Leu Asp Ile Ser Gly Leu Gln Ser Glu Asp Glu Ala Asp Tyr Tyr  
 210 215 220

Cys Ala Ala Trp Asp Asp Ser Leu Ser Glu Phe Leu Phe Gly Thr Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1708  
 <211> 251  
 <212> PRT  
 <213> Homo sapiens

<400> 1708  
 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 1 5 10 15

Ser Gln Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 20 25 30

Gly Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 40 45

Ser Ala Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val  
 50 55 60

Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
65 70 75 80

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Gly Gly Leu Tyr Asp Ile Leu Thr Gly Arg Pro Ala Thr Asp  
100 105 110

Asp Ala Phe Asp Ile Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser  
115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser  
130 135 140

Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val  
145 150 155 160

Arg Ile Thr Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Thr Asn Trp  
165 170 175

Phe Gln Gln Lys Pro Gly Gln Ala Pro Leu Leu Val Val Tyr Ala Lys  
180 185 190

Asn Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser  
195 200 205

Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu  
210 215 220

Ala Asp Tyr Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu  
225 230 235 240

Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1709

<211> 254

<212> PRT

<213> Homo sapiens

<400> 1709

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Arg Phe Asn Arg Tyr

[illegible]

&lt;210&gt; 1710

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1710

Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Ala Leu Ser Ser Asp  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Thr Phe Arg Lys Thr Lys Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Leu Thr Arg Thr Val Phe  
 65 70 75 80

Met Glu Leu Ser Ser Leu Lys Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Gly Arg Glu Asp Thr Asp Lys Val Lys Pro Trp Asp Arg Tyr  
 100 105 110

Tyr His Tyr Tyr Tyr Met Asp Val Trp Gly Arg Gly Thr Met Val Thr  
 115 120 125

Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly  
 130 135 140

Gly Ser Ala Gln Ser Ala Leu Thr Gln Pro Ala Ser Val Ser Gly Ser  
 145 150 155 160

Pro Gly Gln Ser Leu Thr Ile Ser Cys Thr Gly Thr Ser Arg Asp Val  
 165 170 175

Gly Gly Tyr Asn Tyr Val Ser Trp Tyr Gln Gln His Pro Gly Lys Ala  
 180 185 190

Pro Lys Leu Ile Ile Tyr Asp Val Ser Lys Arg Pro Ser Gly Val Ser  
 195 200 205

Asn Arg Phe Ser Gly Ser Lys Ser Gly Asn Thr Ala Ser Leu Thr Ile

210

215

220

Ser Gly Leu Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Ser Ser Tyr  
 225 230 235 240

Arg Ser Ser Ser Thr Met Phe Gly Gly Gly Thr Lys Val Thr Val Leu  
 245 250 255

Gly

&lt;210&gt; 1711

&lt;211&gt; 247

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1711

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Val Ser Ser Arg  
 20 25 30

Thr Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ser Leu Pro Pro Ser Gly Ala Pro Ile Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Ala Ile Thr Ala Asp Ala Leu Thr Asn Thr Ala Phe  
 65 70 75 80

Met Glu Leu Arg Ser Leu Lys Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Asp Gln Gly Arg Tyr Leu Asp Leu Trp Gly Gln Gly Thr Leu  
 100 105 110

Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly  
 115 120 125

Gly Gly Gly Ser Ala Leu Ser Tyr Val Leu Thr Gln Pro Pro Ser Ala  
 130 135 140

Ser Gly Ala Pro Gly Gln Arg Val Thr Ile Ser Cys Ser Gly Ser Ser  
 145 150 155 160

Ser Asn Ile Gly Ser Asn Phe Val Asn Trp Tyr Gln Gln Val Pro Gly  
 165 170 175

Thr Ala Pro Lys Leu Leu Ile Tyr Arg Asp Ile Gln Arg Pro Ser Asp  
 180 185 190

Thr Gly Val Pro Asp Arg Phe Ser Gly Ala Lys Ser Ala Thr Ser Ala  
 195 200 205

Ser Leu Ala Ile Ser Gly Leu Arg Ser Glu Asp Gly Ala Asp Tyr Tyr  
 210 215 220

Cys Ala Ala Trp Asp Asp Ser Leu Ser Gly Pro Val Phe Gly Gly Gly  
 225 230 235 240

Thr Lys Leu Thr Val Leu Gly  
 245

<210> 1712

<211> 251

<212> PRT

<213> Homo sapiens

<400> 1712

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Arg Ala Ser Gly Gly Ser Phe Asn His Ala  
 20 25 30

Ile Ser Trp Val Arg Gln Ala Pro Gly Arg Gly Leu Glu Trp Met Gly  
 35 40 45

Gly Ile Leu Pro Met Tyr Gly Thr Ala Asn Tyr Ala Gln Lys Phe Gln  
 50 55 60

Gly Arg Val Thr Ile Thr Ala Asp Lys Leu Thr Asn Thr Val Tyr Met  
 65 70 75 80

Asp Leu Ser Arg Leu Arg Tyr Glu Asp Thr Ala Val Tyr Tyr Cys Ala  
 85 90 95

Arg Glu Leu Gly Leu Ser Ile Val Gly Ala Thr Thr Gly Ala Leu Asp  
 100 105 110

Met Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly  
 115 120 125

Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu  
 130 135 140

Thr Gln Pro Pro Ser Val Ser Gly Ala Pro Gly Gln Arg Val Thr Ile  
 145 150 155 160

Ser Cys Thr Gly Thr Ser Ser Asn Ile Gly Ala Gly Tyr Asp Val His  
 165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Val Pro Lys Leu Val Ile Tyr Gly  
 180 185 190

Asn Asn Asn Arg Pro Ser Gly Val Ser Asp Arg Phe Ser Gly Ser Lys  
 195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr Arg Leu Gln Ala Glu Asp  
 210 215 220

Glu Ala Tyr Tyr Tyr Cys Gln Ser Tyr Asp Thr Gly Leu Ser Gly Leu  
 225 230 235 240

Phe Gly Gly Gly Thr Gln Leu Thr Val Leu Ser  
 245 250

<210> 1713

<211> 252

<212> PRT

<213> Homo sapiens

<400> 1713

Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser  
 1 5 10 15

Ser Val Arg Val Ser Cys Glu Ala Ser Gly Gly Lys Phe Ser Asn Tyr  
 20 25 30

Ser Leu Asn Trp Leu Arg Gln Ala Pro Gly Gln Gly Pro Glu Trp Met  
 35 40 45

Gly Arg Ile Ile Pro Val Leu Asp Ile Val Asp Tyr Ala Pro Lys Phe  
 50 55 60

Gln Gly Arg Leu Thr Ile Thr Ala Asp Lys Leu Thr Gly Thr Ile Phe  
65 70 75 80

Met Glu Leu Asn Ser Leu Arg Ala Glu Asp Thr Ala Ile Tyr Tyr Cys  
85 90 95

Ala Arg Glu Leu Gly His Arg Glu Gly Gly Tyr Trp Tyr Ser Pro Tyr  
100 105 110

Asn Val Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val  
130 135 140

Leu Thr Gln Pro Pro Ser Val Ser Gly Thr Pro Gly Gln Gly Val Ser  
145 150 155 160

Ile Ser Cys Ser Gly Ser Ser Ser Asn Val Gly Ser Asn Thr Val Asn  
165 170 175

Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile His Thr  
180 185 190

Asn Asp Gln Met Pro Ser Trp Val Pro Asp Arg Phe Ser Gly Ser Lys  
195 200 205

Ser Gly Thr Ser Ala Ser Leu Ala Ile Arg Gly Leu Arg Ser Glu Asp  
210 215 220

Glu Ala Glu Tyr Phe Cys Ala Thr Trp Asp Asp Ser Leu Asn Ala Val  
225 230 235 240

Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
245 250

<210> 1714

<211> 245

<212> PRT

<213> Homo sapiens

<400> 1714

Gln Val Gln Leu Val Gln Ser Gly Pro Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Arg Gly Pro Phe Glu Asn Tyr



20	25	30
Gly Val Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met		
35	40	45
Gly Arg Ile Val Pro Ile Ser Gly Ala Thr Asn Tyr Ala Gln Lys Phe		
50	55	60
Gln Asp Arg Leu Thr Leu Thr Ala Asp Glu Leu Thr Thr Thr Val Phe		
65	70	75
Met Glu Leu Thr Ser Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys		
85	90	95
Ala Lys Asn Met Gly Ala Ser Ala Ala Ala Asp Phe Trp Gly Arg Gly		
100	105	110
Thr Met Val Thr Val Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly		
115	120	125
Ser Gly Gly Gly Gly Ser Ala Leu Ser Tyr Glu Leu Thr Gln Pro Pro		
130	135	140
Ser Val Ser Val Ser Pro Gly Gln Thr Ala Arg Ile Thr Cys Ser Gly		
145	150	155
Asp Val Leu Ala Asn Gln Tyr Ala Tyr Trp Tyr Gln Gln Lys Pro Gly		
165	170	175
Gln Ala Pro Val Val Val Met Tyr Gln Asp Asn Glu Arg Pro Ser Gly		
180	185	190
Thr Pro Glu Arg Leu Ser Gly Ser Arg Ser Gly Ser Thr Val Thr Leu		
195	200	205
Thr Ile Ser Gly Val Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gln		
210	215	220
Ser Ala Asp Ser Thr Gly Thr Tyr Ala Leu Phe Gly Gly Gly Thr Lys		
225	230	235
Leu Thr Val Leu Gly		
245		

&lt;210&gt; 1715

&lt;211&gt; 250

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 1715

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Phe Asn Trp Val Arg Arg Ala Pro Gly Gln Gly Leu Glu Trp Leu  
 35 40 45

Gly Ser Ile Val Pro Val Phe Asn Thr Lys Thr Phe Ala Arg Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Leu Thr Ala Asp Glu Leu Thr Arg Thr Ala Tyr  
 65 70 75 80

Leu Glu Leu Ser Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Ser Arg Tyr Gly Asp Pro Phe Tyr Tyr Tyr Tyr Tyr Met Asn Val  
 100 105 110

Trp Gly Lys Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly Gly Ser  
 115 120 125

Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ala Gln Ser Val Leu Thr  
 130 135 140

Gln Pro Pro Ser Val Ser Ala Ala Pro Gly Gln Lys Val Thr Ile Ser  
 145 150 155 160

Cys Ser Gly Ser Ser Ser Asn Ile Gly Asp Ala Tyr Val Ala Trp Phe  
 165 170 175

Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Glu Asn Asn  
 180 185 190

Lys Arg Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Lys Ser Gly  
 195 200 205

Thr Ser Ala Thr Leu Gly Ile Thr Gly Leu Gln Thr Gly Asp Glu Ala

210                                      215                                      220  
 Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Leu Ser Ala Val Ile Phe  
 225                                      230                                      235                                      240  
  
 Gly Gly Gly Thr Lys Val Asn Val Leu Gly  
                                     245                                      250  
  
 <210> 1716  
 <211> 258  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 1716  
 Gln Val Gln Leu Val Gln Ser Gly Ser Glu Met Lys Lys Pro Gly Ser  
   1                                      5                                      10                                      15  
  
 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Thr Asn  
                                     20                                      25                                      30  
  
 Gly Ile Ser Trp Val Arg Gln Ala Pro Gly His Gly Leu Glu Trp Met  
                                     35                                      40                                      45  
  
 Gly Arg Val Ile Pro Ile Phe Gly Lys Ser Lys Thr Ala Gln Arg Phe  
                                     50                                      55                                      60  
  
 Gln Gly Arg Leu Thr Ile Thr Ala Asp Lys Ala Thr Asp Thr Val Tyr  
   65                                      70                                      75                                      80  
  
 Met Glu Leu Ser Thr Leu Arg Ser Glu Asp Thr Ala Leu Tyr Tyr Cys  
                                     85                                      90                                      95  
  
 Ala Arg Glu Ser Gly Ser His Tyr Asp Leu Leu Thr Gly Leu Leu Val  
                                     100                                      105                                      110  
  
 Ala Ala Asn Gly Phe Asp Val Trp Gly Gln Gly Thr Leu Val Thr Val  
                                     115                                      120                                      125  
  
 Ser Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly  
   130                                      135                                      140  
  
 Ser Ala Gln Ala Val Leu Thr Gln Pro Ser Ser Val Ser Gly Ala Pro  
   145                                      150                                      155                                      160  
  
 Gly Gln Arg Val Thr Ile Ser Cys Thr Gly Ser Ser Ser Asn Thr Gly  
                                     165                                      170                                      175

Ala Gly Tyr Asp Val His Trp Tyr Gln His Leu Pro Gly Thr Ala Pro  
 180 185 190

Lys Leu Val Ile Tyr Asp Ser Gly Asn Arg Pro Ser Gly Val Pro Asp  
 195 200 205

Arg Phe Ser Gly Ser Lys Ser Gly Thr Ser Ala Ser Leu Ala Ile Thr  
 210 215 220

Gly Leu Gln Ala Glu Asp Glu Ala Asn Tyr Tyr Cys Gln Ser Tyr Asp  
 225 230 235 240

Thr Ser Leu Ser Gly Trp Val Phe Gly Gly Gly Thr Lys Leu Thr Val  
 245 250 255

Leu Gly

<210> 1717

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1717

Gly Val Gln Leu Gln Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
 65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
 85 90 95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe  
 100 105 110

Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Gly  
 115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Asp Ile Val Met  
 130 135 140

Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly Asp Arg Val Thr  
 145 150 155 160

Ile Thr Cys Arg Ala Ser Gln Gly Ile Ser Ser Trp Leu Ala Trp Tyr  
 165 170 175

Gln Gln Lys Pro Gly Arg Ala Pro Lys Val Leu Ile Tyr Lys Ala Ser  
 180 185 190

Thr Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly  
 195 200 205

Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala  
 210 215 220

Thr Tyr Tyr Cys Gln Gln Ser Tyr Ser Thr Pro Trp Thr Phe Gly Gln  
 225 230 235 240

Gly Thr Lys Leu Glu Ile Lys Arg  
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<210> 1718

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1718

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
 1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr  
 20 25 30

Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met  
 35 40 45

Gly Gly Ile Ile Pro Ile Phe Gly Thr Ala Asn Tyr Ala Gln Lys Phe  
 50 55 60

Gln Gly Arg Val Thr Ile Thr Ala Asp Glu Ser Thr Ser Thr Ala Tyr  
65 70 75 80

Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys  
85 90 95

Ala Arg Met Glu Tyr Asp Ile Leu Thr Gly Tyr Tyr Gly Gly Tyr Phe  
100 105 110

Asp Tyr Trp Gly Arg Gly Thr Met Val Thr Val Ser Ser Gly Gly Gly  
115 120 125

Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Ser Glu Leu Thr  
130 135 140

Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr  
145 150 155 160

Cys Gln Gly Asp Ser Leu Arg Ser Tyr Tyr Ala Ser Trp Tyr Gln Gln  
165 170 175

Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr Gly Lys Asn Asn Arg  
180 185 190

Pro Ser Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr  
195 200 205

Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr  
210 215 220

Tyr Cys His Ser Arg Asp Ser Ser Gly Asn His Val Leu Phe Gly Gly  
225 230 235 240

Gly Thr Lys Leu Thr Val Leu Gly  
245

<210> 1719

<211> 248

<212> PRT

<213> Homo sapiens

<400> 1719

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser  
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr